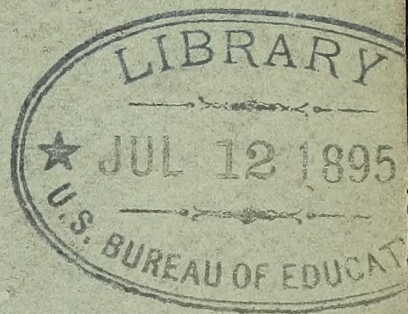


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# Bucknell University,

Lewisburg, Pa.

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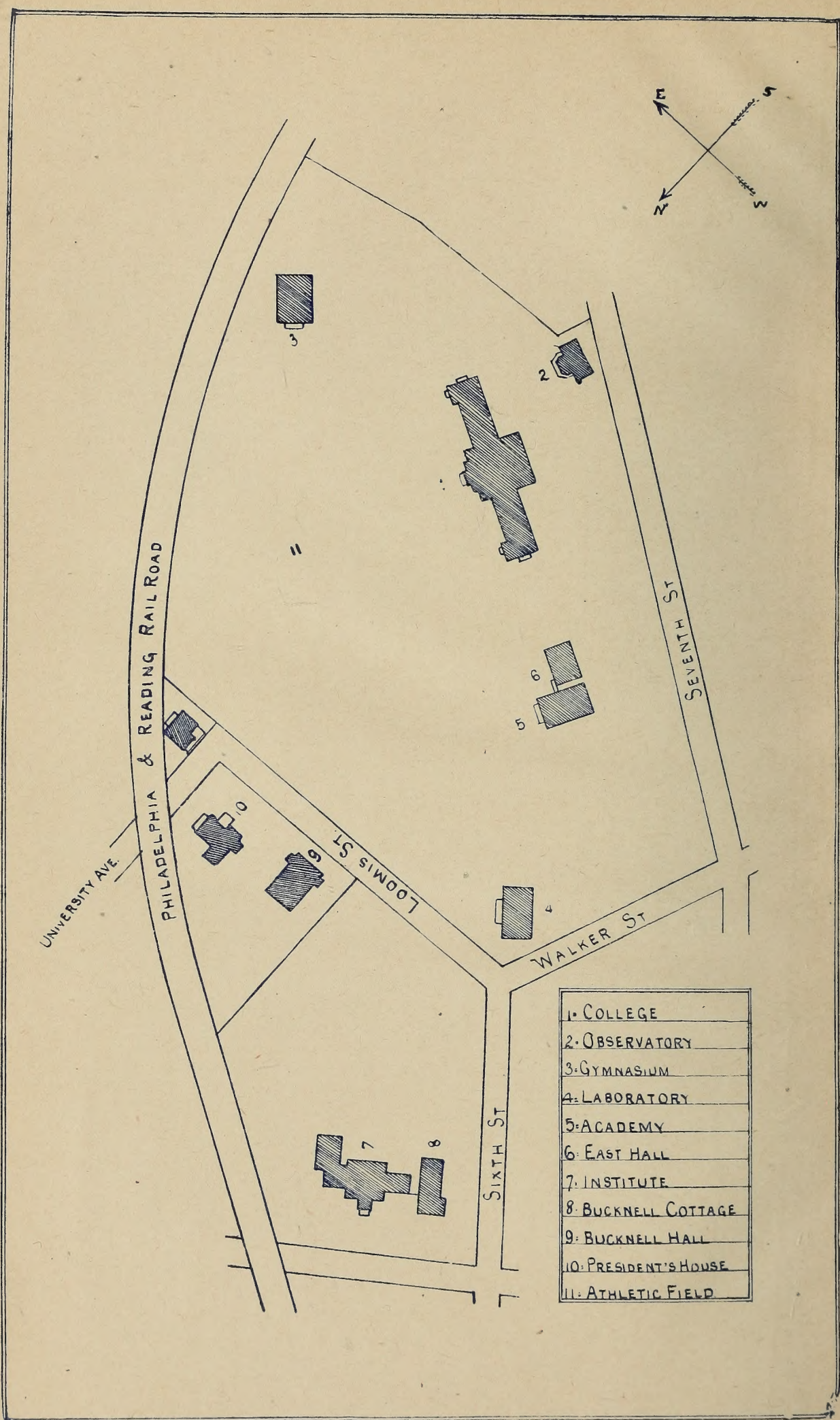












MAP OF BUILDINGS AND CAMPUS.



THE FORTY-FOURTH

ANNUAL CATALOGUE

OF THE

OFFICERS AND STUDENTS

OF

BUCKNELL UNIVERSITY

LEWISBURG, PA.,

FOR THE YEAR 1893-'94.

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THE NATIONAL BAPTIST PRINT,  
1200 CHESTNUT STREET,  
PHILADELPHIA.



## LOCATION.

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The University is located at Lewisburg, near the geographical centre of the State, on the West Branch of the Susquehanna River, in a valley famous for healthfulness and beauty. In addition to the natural advantages of the site, the founders of the institution appreciated the quiet of an inland town for economical support and retirement in study, particularly as it was found that other corporations had so located "their respective colleges as to leave in the central and northern part of Pennsylvania, a region extending more than two hundred miles from East to West, and more than one hundred from North to South, wholly unoccupied by any literary institution above the grade of an ordinary academy." Since the founding of the University, the multiplication of railroads has rendered access easy to every part of the State.



# PLAN AND PURPOSE OF THE UNIVERSITY.

## CORPORATE RIGHTS.

The University was incorporated, with full University privileges, by the Legislature of Pennsylvania in an act approved by the Executive on the fifth day of February, A. D. 1846. The Management of the University is committed to a Board of Trustees, consisting of twenty-five members, or fewer, at the option of the Board. The Trustees are prohibited, for any cause, or under any pretext whatever, from encumbering by mortgage or otherwise the real estate or any other property of the Institution. It is required by the charter, that no religious sentiments are to be accounted a disability to hinder the election of an individual to any office among the teachers of the Institution, or to debar persons from attendance as pupils, or in any manner to abridge their privileges or immunities as students in any department of the University.

## ENDOWMENT.

The Institution has productive funds amounting to over four hundred thousand dollars. The endowment funds, raised at various times, were increased, in 1881, to an even two hundred thousand dollars. Since that time William Bucknell has contributed to the general fund one hundred and fifteen thousand dollars, and for scholarships and prizes about twenty-five thousand dollars.

The raising of one hundred thousand dollars additional endowment was completed July 1st, 1892. Half of this money is now productive.

At the commencement of 1892, the Board of Trustees voted to raise forty thousand dollars to create a chair for Bible instruction. This work is now progressing.

## FORM OF BEQUEST.

To persons desiring to aid in increasing the efficiency of the schools in the work of preparing young men and young women for usefulness, the following form of bequest is recommended :

*I give and bequeath to the Bucknell University, at Lewisburg, Pa., the sum of..... dollars for the general purpose of said school, according to the Act of Assembly incorporating the same.*

## ORGANIZATION.

The University aims to impart sound instruction in all non-professional studies. It comprises four Departments :

I. **The College** offers three courses of study, leading respectively to degrees in Arts, Philosophy and Science.

II. **The Institute** for young women has three courses of study, the Literary, the Classical and the Scientific, leading to diplomas, but not to degrees.

III. **The Academy** is designed to fit young men for College, either for the Classical, Philosophical or Scientific course.

IV. **The School of Music** has full courses in instrumental and vocal music, and grants diplomas to those who complete either of the specified courses.

These schools are under one corporation, have one President, who has general charge, with a principal in more immediate charge of each of the subordinate departments. All expenses are met from funds in the hands of a common treasurer.



## BOARD OF TRUSTEES.

---

CHAIRMAN, HARRY S. HOPPER, ESQ.,

28 South Third Street, Philadelphia.

SECRETARY, REV. A. JUDSON ROWLAND, D. D.,

605 North Calhoun Street, Baltimore, Md.

TREASURER, REV. DAVID P. LEAS, A. M.,

400 South Fortieth Street, Philadelphia.

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JOSEPH K. WEAVER, M. D.,

CRAIGE LIPPINCOTT, ESQ.,

REV. HENRY G. WESTON, D. D.,

D. BRIGHT MILLER, A. M.,

HON. S. P. WOLVERTON, A. M.

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\*Deceased.

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## MEETINGS OF THE BOARD.

The annual meeting is held on the Tuesday of Commencement week, at Lewisburg, Pa.

The semi-annual meeting is held on the second Thursday of January, at 1420 Chestnut Street, Philadelphia, Pa.



## COMMITTEES OF THE BOARD.

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### Committee on Instruction and Discipline:

REV. A. JUDSON ROWLAND, D. D., *Chairman.*

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 HON. SIMON P. WOLVERTON, A. M.

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### Committee on Publication:

REV. GEORGE M. SPRATT, D. D., *Chairman.*

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 REV. C. C. BITTING, D. D., REV. HENRY G. WESTON, D. D.

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\* Deceased.



## THE UNIVERSITY PROPERTY.

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### I. THE COLLEGE.

The College building is situated on a hill which rises one hundred feet above the Susquehanna River, and overlooks scenery of unsurpassed beauty. It has a façade of three hundred and twenty feet. The building was designed by Thomas U. Walter, LL. D., architect of the dome and wings of the Capitol, at Washington, D. C., and is in the Grecian style, combining dignity and simplicity. The central portion is eighty feet square, and is strengthened in front by four massive columns. Within, on the first floor, are five recitation rooms.

On the second floor are the Halls of Theta Alpha and Euepia Literary Societies, the Library-room, Reading-room and Museum of Natural History.

In the third story is Commencement Hall, with a seating capacity of fifteen hundred.

The wings on the eastern and western side, respectively, of the Main Building, are each one hundred and twenty feet in length, and four stories high, and are used for students' rooms. Each sleeping room above the second floor is supplied with a fire escape.

Several thousand dollars have been expended recently in improving the College building.

### II. BUCKNELL HALL.

Bucknell Hall is used as a chapel, in which all the students meet every morning for worship. These exercises give unity to the life of the University, and base the unity upon religious principles. The time is devoted wholly to worship, consisting of singing, reading of Scripture and prayer.

### III. BUCKNELL OBSERVATORY.

The Observatory was erected in 1887, and is designed for the use of students in Practical Astronomy.

The entire equipment is new and represents the latest improvements in this class of instruments. It consists of a Clark Equatorial Telescope of 10 inches aperture and 12½ feet focal length, furnished with a fine position Micrometer and all the usual accessories; a Spectroscope, with prism and grating by Brashear, the grating having 14,500 lines to the inch; a 3-inch Prismatic Transit with a 13 wire movable Micrometer, by T. Ertel & Sons; a Fauth Chronograph with Bond spring governor; a Waldo Precision Clock for sidereal time, with mercurial compensation, break circuiting apparatus; Daniell's battery and telegraph sounders; a Seth Thomas Clock for solar time; a Sextant; a 3-inch Altitude Azimuth Refractor; a set of Meteorological instruments; Celestial globes and maps, and standard works on Theoretic and Practical Astronomy.



#### IV. THE BUCKNELL LABORATORY.

The Laboratory was erected in 1890, and is forty-three feet in width and eighty-six feet in length, and has two stories above the basement. In the first story, which has a clear height of fifteen feet, are a lecture room, with a seating capacity for one hundred and twenty-five students, and a large working-room, in which are tables for individual work in Chemical Analysis; the second floor contains a lecture-room for the class in Physics, and one room each for Quantitative and Qualitative Analysis; the basement has a dark room for Photometry, a room for Applied Chemistry, another for Electricity, and a fire-proof room.

#### V. THE TUSTIN GYMNASIUM.

The basement of the Gymnasium is built of stone, and contains rooms for students' lockers, wardrobes and dressing-rooms, shower-baths, furnaces and coal. The second story is built of brick, rising twenty-two feet from the main floor to the square, and is open to the roof. At the height of twelve feet, a running track gallery, six feet wide, surrounds the room.

#### VI. THE UNIVERSITY ATHLETIC FIELD.

The field is conveniently located at the foot of "College Hill," and was graded and fitted up at great expense for out-door sports. In the northwest corner, just at the main entrance to the college grounds, a shaded section has been set aside for tennis. The tennis courts are carefully graded, laid out and protected by wire-netting. The athletic field is sufficiently large for foot ball, base ball and lacrosse. The slope of "College Hill" furnishes a natural "Grand Stand." Tustin Gymnasium is located at the end of the field, so as to be near the centre of exercise, and easily accessible to the trainers and athletes.

#### VII. THE ACADEMY.

The Academy building, situated on "College Hill," is fifty feet in width by eighty feet in length and three stories high; on the first floor is a commodious dining-room, thirty feet by thirty-six feet; two recitation-rooms, a reception-room and the Principal's office; on the second floor are suites of rooms for the Principal and his family and for the Matron, and a society-hall; the third floor is occupied by students' rooms. These are twenty feet by twelve feet and fourteen feet high. Over three thousand dollars have been recently expended in the improvement of this building. Borough water and steam heat have recently been introduced.

#### VIII. THE EAST HALL.

This is the Bucknell Cottage for young men, and is contiguous to the Academy building and connected with it by a covered passage-way. It is a brick building, three stories high, sixty feet in length and forty feet in width, and is finished in natural wood. The building contains a recitation-room, teachers' apartments, and rooms for thirty-seven students. The rooms have high ceilings, large double windows with inside shutters, two commodious closets each, and are warmed by steam radiators.



## IX. THE INSTITUTE.

The Campus of the Ladies' Institute is separate from that of the College, and comprises six acres.

*The Main Building* contains, on the first floor, an office for the Principal and the Registrar, a reception-room, the office of the Director of Music, five music-rooms, two recitation-rooms and a dining-hall; on the second floor a school-room and a parlor, elegantly furnished; on the third floor a library-room, teachers' apartments and students' rooms.

*The South Hall*, erected in 1869, is devoted to students' rooms, except the third story, which is used as a gymnasium. This gymnasium was lately renovated and equipped. Drills are given at regular intervals with the light apparatus.

## X. THE BUCKNELL COTTAGE.

This building stands to the southwest of the Main Building, being connected with it by an enclosed passage-way. It is built of brick, in the Queen Anne style of architecture, and has dimensions of one hundred feet by thirty-three feet. The interior is finished in natural wood, and is equipped, in matters of light, heat and ventilation, with modern improvements.

The portion allotted to students' rooms affords accommodations for forty occupants. These rooms are in suites on the general plan of a centre parlor, with bed-rooms and closets on either side. The most spacious room of the building and its chief attraction is the *Studio*, with such adjustments for the admission of light and supply of unencumbered wall surfaces as adapt it for the execution and display of art products.

All the Institute buildings are supplied with hot and cold water. Steam pipes and radiators warm every room. The drainage is faultless; stagnant water and dampness are impossible. The constant good health of the students bears testimony to the good sanitary condition of the school.

## XI. THE INSTITUTE CAMPUS.

The Campus of the Ladies' Institute comprises six acres, separated from the college grounds by Loomis Street, and contains a grove of native trees, with beautifully shaded walks. Three courts furnish opportunity for tennis. Outdoor games and exercises are encouraged, for which the Institute campus furnishes fine facilities.

## XII. THE PRESIDENT'S HOUSE.

The Corporation also owns a house for the use of the President of the University. It is surrounded by a beautiful lawn of two acres.



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## THE COLLEGE.

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### THE FACULTY AND OTHER OFFICERS.

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JOHN HOWARD HARRIS, PH. D., LL. D., PRESIDENT,  
AND PROFESSOR OF PSYCHOLOGY AND ETHICS.

FREEMAN LOOMIS, PH. D.,  
PROFESSOR OF MODERN LANGUAGES AND LITERATURE.

GEORGE G. GROFF, M. D., LL. D.,  
PROFESSOR OF ORGANIC SCIENCES.

WILLIAM CYRUS BARTOL, A. M.,  
PROFESSOR OF MATHEMATICS AND ASTRONOMY.

FRANK ERNEST ROCKWOOD, A. M.,  
PROFESSOR OF THE LATIN LANGUAGE AND LITERATURE.

WILLIAM GUNDY OWENS, A. M.,  
PROFESSOR OF PHYSICS AND CHEMISTRY.

ENOCH PERRINE, A. M., LITT. D.,  
JOHN P. CROZER PROFESSOR OF RHETORIC AND ENGLISH LITERATURE,  
AND SECRETARY.

THOMAS FRANKLIN HAMBLIN, A. M.,  
NEW JERSEY PROFESSOR OF THE GREEK LANGUAGE AND LITERATURE.

LINCOLN HULLEY, A. M.,  
PROFESSOR OF HISTORY AND HEBREW.

LLEWELLYN PHILLIPS, A. B.,  
INSTRUCTOR IN ELOCUTION.

WILLIAM EMMETT MARTIN, A. M.,  
INSTRUCTOR IN LOGIC AND ANTHROPOLOGY.

FREEMAN LOOMIS, PH. D.,  
LIBRARIAN.

WILLIAM CHRISTIAN GRETZINGER, PH. B.,  
REGISTRAR OF THE UNIVERSITY.



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*Vice-Presidents,*

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*Secretary and Treasurer,*

PROF. WM. G. OWENS, A. M., Lewisburg.

*Orator for 1894,*

J. H. POMEROY, ESQ.

*Alternate,*

N. P. MERVINE, ESQ.

*Poet for 1894,*

D. M. JONES, ESQ.

*Alternate,*

F. P. LYNCH, M. D.

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*Vice-President,* CHAPLAIN T. A. GILL, D. D.

*Secretary,* REV. R. B. MCDANEL, A. M.

*Treasurer,* C. B. LOWE, M. D.

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*Treasurer,* C. C. LAW, A. M.

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*Vice-Pres. and Sec.,* A. O. STEPHENS, A. B.

*Treasurer,* A. R. E. WYANT, A. B.

---

\*Deceased.



# STUDENTS.

## THE SENIOR CLASS.

NAME.	RESIDENCE.	ROOM.
ANDREW FREEMAN ANDERSON,	<i>Lewisburg.</i>	Mrs. Margaret E. Anderson.
MARY L. BARTOL,	<i>Lewisburg.</i>	Prof. W. C. Bartol.
ELIZA BELL,	<i>Sabbath Rest.</i>	Institute.
EVERETT ADAMS BUSH,	<i>Panama, N. Y.</i>	No. 3, East Wing.
PERRY SYLVESTER CALVIN,	<i>Transfer.</i>	No. 8½, East Wing.
ROBERT BAILEY DAVIDSON,	<i>Paterson, N. J.</i>	No. 24, East Wing.
RAYMOND JOHN DAVIS,	<i>Germantown.</i>	No. 32, East Wing.
GEORGE EDWARD DEPPEN,	<i>Herndon.</i>	No. 14, East Hall.
HARVEY LEARN FASSETT,	<i>Scottsville.</i>	No. 13, East Wing.
ALBERT EDWARD FINN,	<i>Philadelphia.</i>	No. 33, West Wing.
THOMAS STRADLING FRETZ,	<i>Gardenville.</i>	No. 5, West Wing.
HOWARD POLLOCK GUNDY,	<i>Lewisburg.</i>	Mr. W. L. Gundy.
GRACE GUTHRIE,	<i>Pottsville.</i>	Institute.
MARY BELLE HARRIS,	<i>Lewisburg.</i>	President Harris.
JAMES ROWLAND HUGHES,	<i>Scranton.</i>	No. 15, East Wing.
GILBERT FENIMORE KENDALL,	<i>Lewisburg.</i>	Rev. J. L. Kendall.
JAMES MALCOLM KENDALL,	<i>Lewisburg.</i>	Rev. J. L. Kendall.
ALONZO CORODYN LATHROP,	<i>Lewisburg.</i>	No. 16, East Wing.
CHARLES FRANKLIN McMANN,	<i>Philadelphia.</i>	No. 12, East Wing.
WARREN STANLEY MARTS,	<i>Dividing Creek, N. J.</i>	No. 32, West Wing.



NAME.	RESIDENCE.	ROOM.
LEVI LORE RIGGIN,	<i>Port Norris, N. J.</i>	No. 19, East Wing.
FREDERICK OTTO SCHUB,	<i>Pittsburg.</i>	No. 19, West Wing.
FRANKLIN REESE STRAYER,	<i>Lewistown.</i>	Prof. G. G. Groff.
HARVEY FETTERHOFF SMITH,	<i>Harrisburg.</i>	No. 7, West Wing.
RALPH RANSSALAER SNOW,	<i>Franklin.</i>	No. 3, East Wing.
WILSON METTLER VASTINE,	<i>Riverside.</i>	No. 16½, East Wing.
GEORGE HENRY WAID,	<i>Reading.</i>	No. 12, West Wing.
JESSIE JUNE WHEELER,	<i>Erie.</i>	Prof. W. C. Bartol.
CHARLES WESLEY WILLIAMS,	<i>Philadelphia.</i>	No. 12, West Wing.
JOSEPH ROBERTS WOOD,	<i>Norristown.</i>	No. 6, West Wing.
ALBERT HARNISH WYNKOOP,	<i>Philadelphia.</i>	No. 6, West Wing.
SENIORS.....		31.





## THE JUNIOR CLASS.

NAME.	RESIDENCE.	ROOM.
EZRA ALLEN,	<i>Coudersport.</i>	No. 32, East Wing.
HARRY S. BOURN,	<i>Danville.</i>	No. 15, East Wing.
BENJAMIN KANE BRICK,	<i>Marlton, N. J.</i>	No. 8, West Wing.
JOSEPH CALDWELL CAREY,	<i>Glen Loch.</i>	No. 18, West Wing.
WILLIAM HENDERSON CAREY,	<i>Glen Loch.</i>	No. 18, West Wing.
MINNIE COTTON,	<i>Lewisburg.</i>	Mr. John S. Cotton.
WILLIAM ANDERSON CRAWFORD,	<i>De Lancey.</i>	No. 27, West Wing.
PETER BODINE CREGAR,	<i>Aurandale, N. J.</i>	No. 8, West Wing.
NELSON FITHIAN DAVIS,	<i>Bridgeton, N. J.</i>	No. 19, East Wing.
THOMAS CARSON HANNA,	<i>Pottsville.</i>	No. 8, East Wing.
FRANK WATTERSON JACKSON,	<i>Ohio Pyle.</i>	No. 26, West Wing.
WILLIAM ALBERT KAUFFMAN,	<i>Strode's Mills.</i>	No. 26, West Wing.
EDWARD GRIDLEY KENDALL,	<i>Lewisburg.</i>	Rev. J. L. Kendall.
ANDREW GREGG LOOMIS,	<i>Lewisburg.</i>	Rev. J. R. Loomis, LL. D.
KATE IRENE McLAUGHLIN,	<i>Lewisburg.</i>	Mr. G. Y. McLaughlin.
WILLIAM THEODORE PAULLIN, JR.,	<i>Philadelphia.</i>	No. 5, East Wing.
HERBERT MOXLEY PEASE,	<i>Jackson.</i>	No. 30, East Wing.
CORA REIFF PERRY,	<i>Eagleville.</i>	Institute.
DAVID PHILLIPS,	<i>Plymouth.</i>	No. 13, West Wing.
WILLIAM BOYD SHEDDAN,	<i>Pottsgrove.</i>	No. 6, East Wing.



NAME.	RESIDENCE.	ROOM.
FRANKLIN ISAAC SIGMUND,	<i>Philadelphia.</i>	No. 5, West Wing.
FRANK MORTON SIMPSON,	<i>Clifford.</i>	No. 29, East Wing.
BROMLEY SMITH,	<i>Wilkes-Barre.</i>	No. 30, East Wing.
BENJAMIN MEADE WAGENSELLER,	<i>Selinsgrove.</i>	No. 8, East Wing.
WILLIAM WILSON,	<i>Hainesport, N. J.</i>	No. 27, West Wing.
JUNIORS.....		25.





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HERVEY HARRIS BOWER,	<i>Lewisburg.</i>	F. E. Bower, Esq.
FREDERICK WILLIAM BROWN,	<i>Franklin.</i>	No. 6, East Wing.
ALVIN ALONZO COBER,	<i>Newberry.</i>	No. 11, East Wing.
HARRY THOMAS COLESTOCK,	<i>Crooked Creek.</i>	No. 14, West Wing.
MARY COTTON,	<i>Lewisburg.</i>	Mr. John S. Cotton.
JOHN WARREN DAVIS,	<i>Berkley, Va.</i>	No. 29, West Wing.
ALEXANDER DOUGLASS,	<i>Philadelphia.</i>	No. 22, West Wing.
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CHARLES FIRTH,	<i>Chester.</i>	No. 28, West Wing.
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ELWOOD TYSON HADDOCK,	<i>Media.</i>	No. 15, West Wing.
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WILLIAM RAE HARPER,	<i>Erie.</i>	No. 12, Main Hall.
HERBERT FREDERIC HARRIS,	<i>Lewisburg.</i>	President Harris.
WINFIELD WEBSTER IRWIN,	<i>Cowan.</i>	No. 24, West Wing.
THOMAS LEWIS JOSEPHS,	<i>Lindsey.</i>	No. 10, West Wing.
DANIEL ELWOOD LEWIS,	<i>Conshohocken.</i>	Home.
JOHN VANDLING LESHER,	<i>Northumberland.</i>	No. 23, East Wing.



NAME.	RESIDENCE.	ROOM.
JAMES DEMOREST MACNAB,	<i>Brooklyn, N. Y.</i>	No. 9, West Wing.
ROBERT BURNS McCAY,	<i>Northumberland.</i>	Mary A. McCay, M. D.
FRANK BARRON MILLER,	<i>Lewisburg.</i>	D. Bright Miller, Esq.
IDEN MAYFIELD PORTSER,	<i>Greensburg.</i>	No. 28, East Wing.
ERVIN RUSSELL POWELL,	<i>North Sewickley.</i>	No. 14, East Wing.
BARCLAY REYNOLDS, JR.,	<i>Rising Sun, Md.</i>	No. 23, East Wing.
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AMOS THOMAS WILLIAMS,	<i>Ridgway.</i>	No. 31, East Wing.
MARY MOORE WOLFE,	<i>Lewisburg.</i>	Mrs. Martha Wolfe.
SAMUEL RAWCLIFFE WOOD,	<i>Chester.</i>	No. 29, West Wing.
SOPHOMORES.....		37.





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 THE FRESHMAN CLASS.
 

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NAME.	RESIDENCE.	ROOM.
GEORGE FENNER BAKER,	<i>Dauphin.</i>	No. 21, East Hall.
ABRAM STERLING BARNER,	<i>Towanda.</i>	No. 14, East Wing.
WILLARD MAINE BUNNELL,	<i>Montrose.</i>	No. 21, East Wing.
LOUIS HECKER BURGE,	<i>Vineland, N. J.</i>	No. 16, West Wing.
LE ROY TYSON BUTLER,	<i>Montandon.</i>	Mr. C. T. Butler.
FRED LAMBERT CAMP,	<i>Union City.</i>	Miss Mendenhall.
MERTON ROSCOE COLLINS,	<i>Roaring Branch.</i>	No. 4, East Wing.
FRANK WILLIAM DILLON,	<i>Union City.</i>	No. 30, West Wing.
MARY REBECCA EDDELMAN,	<i>Greensburg, Ind.</i>	Institute.
WILLIAM FREDERIC EICHHOLTZ,	<i>Sunbury.</i>	No. 3, West Wing.
JEROME CLARK FETZER,	<i>Milton.</i>	No. 25, West Wing.
VINCENT BARRETT FISK,	<i>Erie.</i>	No. 12, Main Hall.
ANNA KATE GODDARD,	<i>Hamilton, N. Y.</i>	Institute.
JAMES ALEXIS GUIE,	<i>Catawissa.</i>	No. 7, East Wing.
DAVID SOLOMON GRIM,	<i>Bower's Station.</i>	No. 4, West Wing.
JOHN MOORE GUNDY,	<i>Lewisburg.</i>	Mr. J. A. Gundy.
MAUD ELIZABETH HANNA,	<i>Bradford.</i>	Institute.
ALICE CUSHING HARTLEY,	<i>Guelph, Ont.</i>	Rev. W. Hartley.
ROSE LOUISE HARTLEY,	<i>Guelph, Ont.</i>	Rev. W. Hartley.
ELIZABETH HAWLEY,	<i>Northumberland.</i>	Home.
FRANK HOLLINSHEAD,	<i>Philadelphia.</i>	No. 22, East Wing.

NAME.	RESIDENCE.	ROOM.
GEORGE ALBERT JENNINGS,	<i>Great Bridge, Va.</i>	No. 28, West Wing.
ARTHUR HAYES KNAUFF,	<i>Lewisburg.</i>	Home.
ROBERT OTTENS KOONS,	<i>Conyngham.</i>	No. 4, West Wing.
EDWARD CHARLES KUNKLE,	<i>Newberry.</i>	No. 14, West Wing.
ANNIE LESHER,	<i>Northumberland.</i>	Home.
GEORGE LEWIS MEGARGEE,	<i>Coatesville.</i>	No. 27, East Wing.
ARTHUR ORLANDO MILLER,	<i>Edinboro.</i>	No. 4, East Wing.
HERBERT BALDWIN MOYER,	<i>Norristown.</i>	No. 11, West Wing.
MORGAN FREDERIC MOUNT,	<i>Eau Gallie, Fla.</i>	No. 20, East Wing.
ERNEST ROLAND MYERS,	<i>Huntingdon.</i>	No. 22, East Wing.
FERDINAND FIELDS NELSON,	<i>Richmond, Va.</i>	No. 17, East Wing.
MARY OWENS,	<i>Lewisburg.</i>	Mr. J. A. Owens.
WILLIAM HAMMOND PARKER,	<i>Allentown.</i>	No. 17, West Wing.
STEPHEN GIDEON PALMER,	<i>Medway, N. Y.</i>	No. 33, East Wing.
DANIEL WEBSTER PHILLIPS,	<i>Scranton.</i>	No. 24½, East Wing.
CHARLES BERLIN RENO,	<i>New Castle.</i>	No. 18, East Wing.
ROMEYN RIVENBURG,	<i>Clifford.</i>	No. 21, East Wing.
FRANK SPURGEON ROGERS,	<i>Muncy.</i>	No. 25, East Wing.
WILLIAM HAMMOND RODGERS,	<i>Allentown.</i>	No. 31, West Wing.
LOUIS BROWNING SINNETTE,	<i>Buffalo, N. Y.</i>	Mr. John S. Cotton.
JOHN YEOMAN SINTON,	<i>Thurlow.</i>	No. 1, West Wing.
HORACE SMITH,	<i>Pottsville.</i>	No. 5, East Wing.
HARRY THOMAS SPRAGUE,	<i>Lewisburg.</i>	Mr. John Sprague.
RUTH HORSFIELD SPRAGUE,	<i>Lewisburg.</i>	Mr. John Sprague.



NAME.	RESIDENCE.	ROOM.
HERBERT CHARLES STANTON,	<i>Chinchilla.</i>	No. 29, East Wing.
JOHN CHRISTIAN STOCK,	<i>Philadelphia.</i>	No. 11, West Wing.
CARL SUMMERBELL,	<i>Lewisburg.</i>	Rev. J. J. Summerbell.
NELLIE TAYLOR,	<i>Factoryville.</i>	Institute.
FRED WARD WAGNER,	<i>Bradford.</i>	No. 26, East Wing.
LOTTIE MAY WALTER,	<i>Lewisburg.</i>	Mr. C. F. Walter.
JOHN MCCALMONT WILSON,	<i>Franklin.</i>	Mrs. W. R. Funk.
PALMER LEWIS WILLIAMS,	<i>Scranton.</i>	No. 16, East Wing.
FRESHMEN.....		53

### PURSUING SELECT STUDIES.

NAME.	RESIDENCE.	CLASS.
HOWARD BRYSON,	<i>Watsonstown.</i>	Organic Science.
HARVEY BAILEY MASH,	<i>La Plume.</i>	Science.
PURSUING SELECT STUDIES.....		2

### SUMMARY.

The Senior Class, . . . . .	31
The Junior Class, . . . . .	25
The Sophomore Class, . . . . .	37
The Freshman Class, . . . . .	53
Special Students, . . . . .	2
Total . . . . .	148
In other departments, . . . . .	205
Total in all departments, . . . . .	353

## ADMISSION.

### TO FRESHMAN STANDING.

**I. *General Requirements.***—Examinations for admission to the Freshman Class will be held on Monday of Commencement week, June 18th. Candidates will assemble in Bucknell Hall at 8.30 A. M., and come supplied with pencil and paper.

Similar examinations are also held on the day preceding the opening of each term. In special cases, candidates may be examined and admitted at other times in the year.

Candidates are expected to be well prepared in the English branches named below. They will be as strictly examined in these studies as in the Ancient Languages and Mathematics.

There must be furnished to the President by the candidate, satisfactory testimonials of good moral character, and, if from another college, a certificate of honorable dismissal must be presented.

The required age for admission to the Freshman Class is fifteen years.

**II. *Particular Requirements.***—They are as follows for the respective courses :

#### I. THE CLASSICAL COURSE.

To enter the Classical Course, the student must sustain an examination in :—

##### ENGLISH.

1. Writing from dictation.
2. English Grammar.
3. Elements of Rhetoric—Invention, Style and Punctuation.
4. A brief composition upon a subject assigned at the time of the examination. For the year 1894, the subject will be taken from one of the following : Shakespeare's "Othello," George Eliot's "Silas Marner," Macaulay's "Essay on Lord Clive," and Webster's "First Bunker Hill Oration."

##### MATHEMATICS.

1. Arithmetic, including the Metric System.
2. Algebra, including Quadratic Equations. The requirements in this study are intended to include the treatment of Radicals, and will be most nearly met by the use of Wells' University Algebra.
3. Plane Geometry—Wentworth.

##### LATIN.

1. Latin Grammar—Allen and Greenough's, or Harkness'.
2. Daniell's Latin Prose Composition.
3. Four Books of Cæsar's Commentaries.
4. Six Orations of Cicero.
5. Six books of Vergil's Æneid.



**GREEK.**

1. Greek Grammar—Hadley and Allen's, or Goodwin's.
2. The equivalent of Jones' Greek Prose Composition—20 Lessons.
3. Greek Reader.
4. Four books of Xenophon's Anabasis.
5. Three books of Homer's Iliad.

**HISTORY.**

1. History of Rome.
2. History of Greece.
3. Elements of United States History.

**SCIENCE.**

1. Geography—Descriptive, Political and Physical.
2. The student is recommended to read some elementary work on Physics and Physiology, also Morse's "First Book in Zoölogy," Gray's "How Plants Grow," and Dana's "Geological Story Briefly Told." This reading should be done before entering upon the studies of the Sophomore year. The necessary books can be obtained in the University Library.

In any of the subjects of examination, satisfactory equivalents will be accepted instead of the text-books named.

**II. THE PHILOSOPHICAL COURSE.**

I. THE LATIN DIVISION.—To enter the Latin Division of the Philosophical Course, the candidate must sustain an examination in the above-named studies, except Greek, and in Elementary Physics and Physiology.

II. THE GREEK DIVISION.—To enter the Greek Division of the Philosophical Course, the candidate must sustain an examination in the above-named studies, except Cicero and Vergil, and in Elementary Physics and Physiology.

**III. THE SCIENTIFIC COURSE.**

To enter the Scientific Course, the candidate must sustain examination in English Grammar, Elements of Rhetoric, English Composition, Arithmetic, including the Metric System; Algebra, through Quadratic Equations and Plane Geometry; Latin Grammar, Latin Composition (Daniell's Part I, or an equivalent), Cæsar's Commentaries, Four Books; Elementary Physics, Physiology and Hygiene, and Botany; Geography, Mathematical, Political and Physical; History of the United States, General History and Civil Government.

**CONDITIONAL ADMISSION.**

A candidate failing to pass in one or more of the subjects required for admission, may, at the discretion of the Faculty, be admitted to his class conditionally, to make up his deficiencies by extra study. When they are made up, he will be received into full standing in his class.

**SPECIAL STUDENTS.**

Young men who do not desire to take a full regular course, can enter and select special shorter courses, with the sanction of the Faculty; but in all cases, satisfactory examinations must be passed upon the subjects required for admission to the Freshman Class of the course from which they intend to select.

Students who have completed a course of study in preparatory schools of high grade, may be admitted upon the certificate of the Principal of the school from which they come. Blank forms may be obtained by addressing the Registrar.

Graduates from Bucknell Academy in the Classical Course, or in the Scientific Course, will be admitted to the corresponding course in College upon the certificate of the Principal of the Academy.

Graduates of Pennsylvania State Normal Schools are admitted to the Scientific Course without examination.

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## TO ADVANCED STANDING.

I. **General Requirements.**—A proportionate increase of age is requisite for admission to advanced classes, over that required for admission to Freshman standing. Other general requirements are the same as for admission to the Freshman Class.

II. **Particular Requirements.**—Candidates for admission to advanced classes are examined both as for admission to Freshman standing, and also in the studies that have been pursued by the class which they desire to enter.

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## LOCAL EXAMINATION FOR ADMISSION.

Arrangements have been made for conducting entrance examinations at Philadelphia, Pittsburg, Harrisburg and Scranton. Those intending to present themselves for examination at either of these places should inform the President of the University of their intention, and the necessary information as to details will be furnished.

These examinations will be held Friday, June 15, 1894.





## COURSES OF STUDY.

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The following Courses of Study may be pursued in the College :

I. *The Classical Course* extends through four years, and aims to furnish a liberal education in the classics, the sciences, the arts, and literature. It comprises, substantially, the studies of the established college curriculum, with the addition of such branches as modern life seems to demand. The studies in the Freshman and Sophomore years are all required ; in the Junior and Senior years, most of the studies are elective. Students who have satisfactorily pursued this course are admitted to the degree of Bachelor of Arts.

II. *The Philosophical Course*, with Latin or Greek, in each of its two divisions, also extends through four years, and aims to furnish a thorough training in advanced studies to those who desire to pursue but one of the Ancient Languages. This course contains four terms of such language study, be it of Latin or Greek, most of the other studies of the Classical Course, with some addition of Scientific subjects. Students pursuing this course, recite, as far as possible, with classical students. Those who have satisfactorily completed the studies of the course are admitted to the degree of Bachelor of Philosophy.

III. *The Scientific Course* extends through four years, and is substantially the same as the Philosophical Course, with the substitution of additional Mathematical and Scientific studies for Latin and Greek. Those who have completed the course are admitted to the degree of Bachelor of Science.

In the selection of optional studies in the above courses, the choice must be made with the approbation of the Faculty.

IV. *The Eclectic Course* is not limited to any definite time, and does not lead to any degree. It is designed to furnish advanced instruction in literature, science, and the arts, to students who do not intend to pursue a regular course of study, but desire to select certain branches. The College will furnish special students with such studies as they may elect only at times announced in the Curricula, found on another page. Every student is required to select at least three studies from those taught during any given term, and these are to be pursued at the same time. Students will not be allowed to pursue studies for which they are not fully qualified by their previous training. A certificate will be given by the President, at any time, stating what studies have been completed and the grade attained in them. This certificate will be accepted as equivalent to an examination, provided the holder, at any time, prefers to be transferred to any one of the regular courses.

V. *Advanced Courses* in Literature, Philosophy and Science have been established, leading respectively to the degrees of Master of Arts, Master of Philosophy and Master of Science. These courses are open to graduates of Bucknell University. Particulars may be learned by addressing the President.

# CURRICULA.

## THE CLASSICAL COURSE.

*Leading to the Degree of Bachelor of Arts.*

### FRESHMAN YEAR.

- |  |   |
|--|---|
| I. TERM—Geometry,<br>Algebra,<br>Cicero de Senectute et de Am.,<br>Lysias' Orations,<br>Greek Prose Composition, | Practical Ethics,<br>Hygiene,<br>Elocution,<br>English Composition,<br>Lectures on the Essay. |
| II. TERM—Trigonometry,<br>Algebra,<br>Livy,<br>Herodotus and Thucydides,   | Derivatives,<br>Elocution,<br>English Composition,<br>Greek Testament.                        |
| III. TERM—Analytical Geometry,<br>Tacitus and Pliny,<br>Odyssey,   | Chemistry,<br>Elocution,<br>English Composition,  |
|  | Greek Testament.  |

### SOPHOMORE YEAR.

- |   |   |
|---|---|
| I. TERM—General Chemistry,<br>Horace,<br>Rhetoric,  | Linear Perspective,<br>Elocution,<br>English Composition. |
| II. TERM—Animal Physiology,<br>Demosthenes,<br>English Literature,  | Greek Literature,<br>Elocution,<br>English Composition.   |
| III. TERM—Botany,<br>German,<br><i>Juvenal</i> , or<br><i>Analytical Chemistry</i> , or<br><i>Civil Engineering</i> , | Mineralogy,<br>Elocution,<br>English Composition.         |

### JUNIOR YEAR.

- |                               |                                    |
|-------------------------------|------------------------------------|
| I. TERM—Mechanics,<br>French, | History of Education,<br>Orations, |
|                               | Elocution.                         |

### ELECTIVE STUDIES :

- |  |   |
|--|---|
| <i>Sophocles</i> ,<br><i>Quintilian</i> ,<br><i>German</i> , | <i>Surveying</i> ,<br><i>Biology</i> ,<br><i>Organic Analysis</i> , |
|  | <i>American History</i> .   |



II. TERM—Physics,  
Orations,

Electricity and Magnetism,  
Elocution.

ELECTIVE STUDIES :

*Latin Poets,*  
*French,*  
*German,*  
*Hebrew,*  
*English Bible,*  
*History of Modern Europe,*

*Logic,*  
*Differential Calculus,*  
*Quantitative Analysis,*  
*Animal Histology,*  
*Embryology,*  
*Advanced Composition.*

III. TERM—Astronomy,  
Orations,

English Versification,  
Elocution.

ELECTIVE STUDIES :

*Plato,*  
*Cicero de Natura Deorum,*  
*French,*  
*English Oratory,*  
*English Bible,*  
*Hebrew,*

*Integral Calculus,*  
*Physics,*  
*Analytical Chemistry, or*  
*Applied Chemistry,*  
*Plant Histology,*  
*Civil Engineering.*

SENIOR YEAR.

I. TERM—Psychology,  
Geology,

Periods in English Prose,  
Orations,

Extemporaneous Speaking.

\*ELECTIVE STUDIES :

*Tacitus : Annals,*  
*Anglo-Saxon,*

*Practical Astronomy,*  
*Mediæval History.*

II. TERM—Ethics,  
Sanitary Science,

History of Philosophy,  
Orations,

Extemporaneous Speaking.

\* ELECTIVE STUDIES :

*Demosthenes de Corona,*  
*History of Modern Europe,*  
*Roman Law,*

*Economics,*  
*Comparative Anatomy,*  
*Human Osteology.*

III. TERM—Theism,

Orations.

Anthropology,

\* ELECTIVE STUDIES :

*Seneca,*  
*Shakespeare,*

*Constitutional Law,*  
*Greek Testament.*

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\*Seniors may take any of the electives of the Junior year for corresponding terms.

## II. THE PHILOSOPHICAL COURSE.

*Leading to the Degree of Bachelor of Philosophy.*

### A. Latin Division.

#### FRESHMAN YEAR.

- |  |   |
|--|---|
| I. TERM—Geometry,<br>Algebra,<br>German,<br>Cicero de Senectute et de Am.,<br>English Composition. | Practical Ethics,<br>Hygiene,<br>Elocution,<br>Lectures on the Essay, |
| II. TERM—Trigonometry,<br>Algebra,<br>German,<br>Livy.   | Derivatives,<br>Elocution,<br>English Composition,                    |
| III. TERM—Analytical Geometry,<br>German,<br>Tacitus and Pliny,                                    | Chemistry,<br>Elocution,<br>English Composition.                      |

#### SOPHOMORE YEAR.

- |   |   |
|---|---|
| I. TERM—Chemistry,<br>Rhetoric,<br>Horace,  | Linear Perspective,<br>Elocution,<br>English Composition. |
| II. TERM—Animal Physiology,<br>English Literature,<br>Differential Calculus,                                  | Physiology,<br>Elocution,<br>English Composition.         |
| III. TERM—Botany,<br>Analytical Chemistry,<br><i>Juvenal, or Integral Calculus, or<br/>Civil Engineering,</i> | Mineralogy,<br>Elocution,<br>English Composition.         |

#### JUNIOR YEAR.

- |   |                                    |
|---|------------------------------------|
| I. TERM—Mechanics,<br>French,<br>Elocution. | History of Education,<br>Orations, |
|---|------------------------------------|

#### ELECTIVE STUDIES :

- |  |  |
|--|--|
| <i>Quintilian,</i><br><i>German,</i><br><i>Organic Analysis,</i> | <i>Surveying,</i><br><i>Biology,</i><br><i>American History.</i> |
| II. TERM—Physics,<br>Orations,                                   | Electricity and Magnetism,<br>Elocution.                         |

#### ELECTIVE STUDIES :

- |   |   |
|---|---|
| <i>Latin Poets,</i><br><i>French,</i><br><i>German,</i><br><i>Hebrew,</i><br><i>History of Modern Europe,</i><br><i>Advanced Composition.</i> | <i>Logic,</i><br><i>Quantitative Analysis,</i><br><i>Animal Histology,</i><br><i>Embryology,</i><br><i>English Bible,</i> |
|---|---|



- III. TERM—Astronomy,  
Orations, English Versification,  
Elocution.

## ELECTIVE STUDIES :

*Cicero de Natura Deorum,* *Integral Calculus,*  
*French,* *Physics,*  
*English Oratory,* *Analytical Chemistry, or*  
*English Bible,* *Applied Chemistry,*  
*Hebrew,* *Plant Histology,*  
*Civil Engineering.*

## SENIOR YEAR.

- I. TERM—Psychology, Periods in English Prose,  
 Geology, Orations,  
 Extemporaneous Speaking.

## \* ELECTIVE STUDIES :

*Tacitus : Annals,* *Practical Astronomy,*  
*Anglo-Saxon,* *Mediæval History.*

- II. TERM—Ethics, History of Philosophy,  
 Sanitary Science, Orations,  
 Extemporaneous Speaking.

## \* ELECTIVE STUDIES :

*History of Modern Europe,* *Economics,*  
*Roman Law,* *Comparative Anatomy,*  
*Human Osteology.*

- III. TERM—Theism, Anthropology,  
 Orations.

## \* ELECTIVE STUDIES :

*Seneca,* *Constitutional Law,*  
*Shakespeare.*

## B. Greek Division.

## FRESHMAN YEAR.

- I. TERM—Geometry, Practical Ethics,  
 Algebra, Hygiene,  
 German, Elocution,  
 Lysias' Orations, English Composition,  
 Lectures on the Essay.

- II. TERM—Trigonometry, Derivatives,  
 Algebra, Elocution,  
 German, English Composition,  
 Herodotus and Thucydides.

- III. TERM—Analytical Geometry, Chemistry,  
 German, Elocution,  
 Odyssey, English Composition.

**SOPHOMORE YEAR.**

- |   |   |
|---|---|
| I. TERM—Chemistry,<br>Rhetoric,<br>Xenophon's Memorabilia,  | Linear Perspective,<br>Elocution,<br>English Composition. |
| II. TERM—Animal Physiology,<br>English Literature,<br>Demosthenes,                                      | Greek Literature,<br>Elocution,<br>English Composition.   |
| III. TERM—Botany,<br>Analytical Chemistry,<br><i>English Oratory</i> , or<br><i>Civil Engineering</i> , | Mineralogy,<br>Elocution,<br>English Composition.         |

**JUNIOR YEAR.**

- |                               |                                    |
|-------------------------------|------------------------------------|
| I. TERM—Mechanics,<br>French, | History of Education,<br>Orations, |
| Elocution.                    |                                    |

**ELECTIVE STUDIES :**

- |  |   |
|--|---|
| <i>Sophocles</i> ,<br><i>German</i> ,<br><i>Organic Analysis</i> , | <i>Surveying</i> ,<br><i>Biology</i> ,<br><i>American History</i> . |
| II. TERM—Physics,<br>Orations,                                     | Electricity and Magnetism,<br>Elocution.                            |

**ELECTIVE STUDIES :**

- |   |   |
|---|---|
| <i>Logic</i> ,<br><i>French</i> ,<br><i>Hebrew</i> ,<br><i>German</i> ,<br><i>English Bible</i> , | <i>Differential Calculus</i> ,<br><i>Quantitative Analysis</i> ,<br><i>Animal Histology</i> ,<br><i>Embryology</i> ,<br><i>Advanced Composition</i> , |
| <i>History of Modern Europe</i> .   |   |
| III. TERM—Astronomy,<br>Orations,   | English Versification,<br>Elocution.  |

**ELECTIVE STUDIES :**

- |  |  |
|--|--|
| <i>Plato</i> ,<br><i>French</i> ,<br><i>English Oratory</i> ,<br><i>English Bible</i> ,<br><i>Hebrew</i> , | <i>Integral Calculus</i> ,<br><i>Physics</i> ,<br><i>Applied Chemistry</i> ,<br><i>Biology</i> ,<br><i>Plant Histology</i> , |
| <i>Civil Engineering</i> .   |  |

**SENIOR YEAR.**

- |                                 |  |
|---------------------------------|--|
| I. TERM—Psychology,<br>Geology, | Periods in English Prose,<br>Orations, |
| Extemporaneous Speaking.        |  |

**\*ELECTIVE STUDIES :**

- |                           |                              |
|---------------------------|------------------------------|
| <i>Anglo-Saxon</i> ,      | <i>Practical Astronomy</i> , |
| <i>Mediæval History</i> . |                              |



- II. TERM—Ethics,  
Sanitary Science,
- History of Philosophy,  
Orations.

\*ELECTIVE STUDIES :

*History of Modern Europe,*      *Economics,*  
*Roman Law,*      *Comparative Anatomy,*  
*Demosthenes de Corona,*      *Human Osteology.*

- III. TERM—Theism,
- Anthropology,  
Orations.

\*ELECTIVE STUDIES :

*Shakespeare,*      *Constitutional Law,*  
*Greek Testament.*

\*Seniors may take any of the electives of the Junior year for corresponding terms.

### III. THE SCIENTIFIC COURSE.

*Leading to the Degree of Bachelor of Science.*

#### FRESHMAN YEAR.

- I. TERM—Geometry,  
Algebra,  
German,  
*French or Latin,*  
American Literature.
- Hygiene,  
Elocution,  
English Composition,  
Lectures on the Essay,
- II. TERM—Trigonometry,  
Algebra,  
German,  
*French or Latin,*
- Chemistry,  
Derivatives,  
Elocution,  
English Composition.
- III. TERM—Analytical Geometry,  
German,  
*French or Latin,*  
Descriptive Anthropology.
- Chemistry,  
Elocution,  
English Composition,

#### SOPHOMORE YEAR.

- I. TERM—Rhetoric,  
Chemistry,  
Surveying,
- Linear Perspective,  
Elocution,  
English Composition.
- II. TERM—English Literature,  
Animal Physiology,  
Differential Calculus,
- Physiology,  
Elocution,  
English Composition.
- III. TERM—Botany,  
Analytical Chemistry,  
*Integral Calculus, or*  
*Civil Engineering,*
- Mineralogy,  
Elocution,  
English Composition.

**JUNIOR YEAR.**

I. TERM—Mechanics,  
Orations,

History of Education,  
Elocution.

## ELECTIVE STUDIES :

*German,*  
*Biology,*

*French,*  
*American History,*

*Organic Analysis.*

II. TERM—Physics,  
Orations,

Electricity and Magnetism,  
Elocution.

## ELECTIVE STUDIES :

*Logic,*  
*Quantitative Analysis,*  
*Animal Histology,*  
*Embryology,*  
*Advanced Composition,*

*German,*  
*French,*  
*Hebrew,*  
*English Bible,*  
*History of Modern Europe.*

III. TERM—Astronomy,  
Orations,

English Versification,  
Elocution.

## ELECTIVE STUDIES :

*French,*  
*English Oratory,*  
*English Bible,*

*Physics,*  
*Applied Chemistry,*  
*Plant Histology,*

*Hebrew.*

**SENIOR YEAR.**

I. TERM—Psychology,  
Geology,

Periods in English Prose,  
Orations,

Extemporaneous Speaking.

## \* ELECTIVE STUDIES :

*Anglo-Saxon,*

*Practical Astronomy,*

*Mediæval History.*

II. TERM—Ethics,  
Sanitary Science,

History of Philosophy,  
Orations,

Extemporaneous Speaking.

## \* ELECTIVE STUDIES :

*History of Modern Europe,*  
*Roman Law,*

*Economics,*  
*Comparative Anatomy,*

*Human Osteology.*

III. TERM—Theism,

Anthropology,

Orations.

## \* ELECTIVE STUDIES :

*Shakespeare,*

*Constitutional Law.*

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\*Seniors may take any of the electives of the Junior year for corresponding terms.



## LECTURES.

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The following Courses of Lectures have been established. These lectures are given immediately after the chapel exercises, and are for one hour each.

### SENIOR CLASS.

- I. TERM—Professor Perrine on Periods in English Prose.
- II. TERM—The President on Philosophy.
- III. TERM—The President on Anthropology.

### JUNIOR CLASS.

- I. TERM—The President on the History of Education.
- II. TERM—Professor Owens on Electricity and Magnetism.
- III. TERM—Professor Perrine on English Versification.

### SOPHOMORE CLASS.

- I. TERM—Professor Bartol on Linear Perspective.
- II. TERM—Professor Hamblin on Greek Literature.  
Professor Groff on Physiology.
- III. TERM—Professor Groff on Mineralogy.

### FRESHMAN CLASS.

- I. TERM—Professor Groff on Hygiene, (half term).  
Professor Perrine on the Essay and Oration, (half term).
- II. TERM—Professor Bartol on Derivatives.
- III. TERM—Professor Owens on Chemistry.

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## MONDAY MORNINGS.

### SENIOR CLASS.

During the third term, Professor Groff will deliver a course of lectures on Sanitary Science.

## DEPARTMENTS OF INSTRUCTION.

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The method of instruction in the College is partly by text-books, and partly by lectures, according to the nature of the subject discussed. Each Professor has his individual mode of imparting knowledge, and this, in the result, is advantageous to the learner. In general, the aim is to discuss each subject so far as possible as the subject matter requires, yet all branches are presented practically, comparatively and historically, with the view of leading the student to the apprehension of the subject as a whole, and in its organic relations, and not fill the memory with the phraseology of a text-book. The range and character of the instruction can be most accurately gathered from the following account of the different departments.

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### I. ELOCUTION AND ORATORY.

#### INSTRUCTOR PHILLIPS.

The aim is to train the student to speak effectively either in the pulpit or upon the platform or at the bar. Each student receives individual attention during the first half of the course in Elocution, during the latter half in Oratory.

The Freshman Class has weekly recitations in Elocution during the first and second terms. A prize contest in declamation is held in the second term.

Each member of the Sophomore Class is required to present at least one declamation each term. A prize contest is given in the first term of each year.

Each member of the Junior Class pronounces two orations in every term. A prize contest in oratory is held in the third term.

For the Senior Class, the work is optional. A prize is offered for the best oration on commencement day.

Special attention is paid to Debates and Extemporaneous Speaking. During the third term of the Junior year, debates will be held on assigned topics; and during the Senior year, exercises in debate and extemporaneous speaking will be held in connection with the lectures on Anthropology and Social Science.

Besides the class-room debates, there will be three public debates during the Junior year, the last of which will be a prize debate.

### II. THE ENGLISH LANGUAGE AND LITERATURE.

#### PROFESSOR PERRINE.

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#### I. PREPARATORY WORK.

It is assumed that the student has become thoroughly grounded in the essentials of Grammar; that he has mastered the elements of Rhetoric as presented in Williams' Rhetoric, or any other of similar grade; and that he is able to express his thoughts clearly and concisely. Special attention is also called to the required reading of English classics—a list is given elsewhere—and it is pre-



sumed that by reading them, the student has become more or less familiar with the leading forms of literary expression,—the drama, the novel, the essay, the oration. This reading should not be done as a pastime, but under competent direction, with the end in view of making a scholarly acquaintance with the authors read ; and it is desired that at least the authors suggested should be read, in order to secure uniformity of preparation among the members of the class.

## II. AIM AND METHODS.

The aim is to cultivate the power and habit of (1) accurate thinking, (2) correct and effective composition, (3) intelligent criticism of leading English authors ; and to acquire (4) a scientific knowledge of the Origin and Development of the English Language. The methods are largely those known as Laboratory Methods, and in all cases where possible, the method of independent investigation will be pursued. The course in Rhetoric is after the constructive rather than the critical method, although both kinds will be used as occasion demands. The course in English Literature will pay less attention to the textbook than to a critical reading, in the class, of the representative work of each author studied. The student will be urged to know, rather than to know about, English Literature. The course in Logic will have to do with the construction and analysis of arguments in their bearing upon public debate, while at the same time, it will lead by natural steps to those studies of a later period that presume a knowledge of the science.

## III. COURSES.

I. *Rhetoric*.—Genung's Practical Rhetoric and Genung's Rhetorical Analysis. Essays every week based on Lewes' "Principles of Success in Literature." Analysis of themes, criticisms of plans, and exercises in all the forms of Composition discussed, are required. First term, Sophomore year.

II. *English Literature*.—Emery's "Outlines of Notes on English Literature." The authors studied and the texts required are, Chaucer's "Prologue to the 'Canterbury Tales,' with the 'Knight's Tale' ;" Shakespeare's "As You Like It ;" Milton's "Comus ;" Pope's "Essay on Criticism ;" Wordsworth's "Poems selected by Arnold ;" Selections from Tennyson. Second term, Sophomore year.

III. *Logic*.—Minto's Logic. Second term, Junior year.

IV. *English Oratory*.—A careful study of the English Orators will be made, as far as time will permit, with reference to the peculiarities of each period, and especially to those of the present day. Clarke's Political Orations and Baker's Specimens of Argumentation are used, and special work will be required in Quintilian's Institutes and Cicero de Oratore. As this is one of the electives of the third term in the Junior year, there will be opportunity for an extended course. The Library has recently been enriched in this department.

V. *Anglo-Saxon*.—Bright's Anglo-Saxon Reader. First term, Senior year, for those who have taken courses I. and II.

VI. *Shakespeare*.—A study of "Mid-Summer Night's Dream," "Hamlet," and "Tempest," to show the development of the poet's mind and art. Third term, Senior year, for those who have taken courses I. and II.

VII. *The Essay and the Oration*.—Lectures are given to the Freshmen on "The Essay and the Oration," as an especial preparation for the practical work of the course, and supplementary to the work assumed to have been done in the preparatory schools.

VIII. *English Versification*.—On the successive Thursday mornings of the third term, a course of lectures to the Sophomore Class on English Versification as shown in Tennyson.

IX. *English Prose*.—A critical study of the development of English Prose, using Garnett's English Prose from Elizabeth to Victoria. Senior class, first term.

X. *Essays and Orations*.—The Freshmen are required to present two essays in the first term, and three in the second and third terms, respectively; the Sophomores, three essays each term; the Juniors, two orations, and the Seniors one oration each term. The orations presented at the exercises of the Junior Exhibition and Commencement will be received as two of the required orations. Both Essays and Orations are criticised with the author, if necessary.

XI. *Advanced Composition* in Second term, Junior year, for those who have taken courses I. and II. Text-book, Scott and Denney's Paragraph-Writing and Carpenter's Advanced Composition.

#### HONOR COURSES IN ENGLISH.

1. American Literature, comprising lectures on Bryant, Hawthorne, Longfellow, Lowell, Whittier and Holmes, with Discussions and Theses, for those who have taken courses I. and II.

2. Milton's "Paradise Lost," R. C. Browne's "Milton," and S. A. Brooke's "Life of Milton," with required Theses, for those who have taken courses I. and II.

3. Skeat's "Specimens of English Literature," 1394-1579, for those who have taken courses I. and II.

4. Skeat's "Piers the Plowman," for those who have taken courses I., II. and V.

5. The Ormulum and The Ancren Riwe, Sweet's edition, for those who have taken I., II. and V.

### III. THE LATIN LANGUAGE AND LITERATURE.

#### PROFESSOR ROCKWOOD.

There are four terms of required work in this department and seven of elective. Honor courses may be pursued in any term except the first term of the Freshman year.

In the prescribed work, the courses offered and the methods of instruction employed are designed to give the student accuracy and facility in translating Latin into correct, idiomatic English; the ability to read and appreciate the text in the original; a general acquaintance with the growth and development of the language and literature; a knowledge of the leading facts in Roman history; and some degree of familiarity with the life of the people. In the



first term, the text is carefully studied, with special reference to forms and constructions, and considerable time is given to written translations and to oral and written composition. It is believed that in this way the faithful student can become thoroughly grounded in the elements of the language and be prepared to pursue his subsequent reading with pleasure and profit. After the first term, historical and literary topics are given greater prominence. Collateral reading is required in Liddell, Merivale and Capes'. Wilkins' Primer, supplemented by lectures, is made the basis of an outline course on Roman Literature.

In the elective courses a wide range of reading is offered. While particular lines of study have been marked out, different authors may be substituted in place of those announced in the catalogue. In all cases it is the intention to suit the work to the needs of the class. Provision is made for those who wish by varied reading to gain as large an acquaintance with the literature as possible, and also for those who desire to make a specialty of Roman history or philosophy. Students intending to become teachers are aided and directed in their work with that object in view. In the elective courses, less time is devoted to formal recitations than is the case in the prescribed work, while more attention is given to the preparation of papers on assigned topics by members of the class and to lectures and discussions by the instructor. Lectures are given on Roman Antiquities, and these, so far as possible, are illustrated by wall-pictures, plates and photographs.

COURSES: 1-4 required; 5-11 elective.

1. **Cicero**: *De Senectute* and *De Amicitia*. Review of special topics in Latin Grammar. Oral and written exercises in Prose Composition, based upon the text. Translation at sight and at hearing. First term, Freshman year.

2. **Livy**: Books XXI and XXII. Selections from Books I and II, at sight. Latin Prose Composition, based upon the text. Roman History: Special chapters in Liddell. Second term, Freshman year.

3. **Tacitus**: *Agricola* and *Germania*. PLINY: Selections from the Epistles. Translation at sight. Latin Prose Composition, based upon the text. Roman History: Capes' "Early Empire." Third term, Freshman year.

4. **Horace**: Selections from the Satires, Odes and Epistles. Prosody. Lectures on Roman life in the time of Augustus. Historical outlines of the Latin Language and Literature: Wilkins' Primer; lectures. First term, Sophomore year.

5. **Juvenal**: Selected Satires. Translation at sight. Roman History: Capes and Merivale. Roman Antiquities: Lectures. Third term, Sophomore year.

6. **Quintilian**: Books X and XII. Selections from Book I, at sight. Roman Literature: Readings from Cruttwell and Teuffel. First term, Junior year.

7. **Latin Poets**: Selections from Catullus, Lucretius, Tibullus, Propertius, Ovid and Lucan. Lectures and collateral reading upon topics suggested by the authors studied. Second term, Junior year.

8. **Cicero**: *De Natura Deorum*. The object of this course is to give the student an outline of the Stoic, Epicurean and Academic systems of philosophy.

Members of the class are required to prepare papers upon special topics. Third term, Junior year.

9. **Velleius Paterculus**: Roman History. TACITUS: The Annals. Large amounts are read at sight. Special topics in Roman History are assigned for study. First term, Senior year.

10. **Roman Law**: Instruction is given by text-book (Morey's) and by lectures. Students are required to read on assigned topics and to make reports upon the same to the class. Second term, Senior year.

11. **Seneca**: Selections from his Moral Essays. Special study of his life, times and Philosophy. Third term, Senior year.

#### HONOR COURSES IN LATIN.

1. **Ovid**: *Metamorphoses*; *Tristia*; *Fasti*.

2. **Cicero**: Letters; *De Officiis*; *Brutus*.

3. **Tacitus**: Histories. Suetonius: *De Vita Cæsarum*.

4. **Plautus and Terence**: Selected Plays. Allen's "Remnants of Early Latin." Wordsworth's "Fragments and Specimens of Early Latin."

5. **Tertullian**: The Apology. LATIN HYMNS.

The following books are used: Kelsey's Cicero *de Senectute et de Amicitia*; Lord's Livy; Hopkins' *Agricola* and *Germania* of Tacitus; Holbrooke's Pliny; Lincoln's Horace; Lindsay's Juvenal; Frieze's Quintilian; Crowell's Selections from Latin Poets; Stickney's Cicero *de Natura Deorum*; Allen's Tacitus' Annals; Morey's Roman Law; Hurst and Whiting's Seneca; Allen and Greenough's Ovid; Holden's Cicero *de Officiis*; Fowler's Plautus; West's Terence; Kellogg's Cicero's *Brutus*; Tyler's Histories of Tacitus; Peck's Suetonius; March's Tertullian and Latin Hymns. Allen and Greenough's and Harkness' Latin Grammars; Harpers' Latin Dictionary.

### IV. THE GREEK LANGUAGE AND LITERATURE.

#### PROFESSOR HAMBLIN.

##### I. PREPARATION.

It is expected that the student in his preparatory course has mastered the Attic forms, the most common principles of syntax, the "principal parts" of the most common irregular verbs, and the correct writing of simple Greek sentences. He ought also to be able to read the Greek text fluently and to understand short Greek sentences when spoken to him. To facilitate this end, it is recommended that the Greek text be read orally from the beginning of the study of the language, and that composition in Greek be continued through the whole of the preparatory course. Much help may be obtained from "Natural" and "Inductive" methods. While a definite amount of the *Anabasis* and *Iliad* is elsewhere stated as required, yet quality of work is preferred to quantity. It is desired that the preparatory course be made, as far as possible, a mastery of the principles of the *language*, that the literature and civilization of the Greeks may occupy the larger part of the student's attention in his subsequent study.



## II. AIM AND METHODS.

The first end sought is an accurate and thorough knowledge of the language, as a means of discipline to the mind and as the key to the literature. The first part of the Freshman year is devoted largely to grammatical topics in connection with the author read. But the student is encouraged to gather facts and to formulate principles from the text rather than to memorize the standard grammars. Translation in idiomatic English is required, yet as near as possible to the literal of the original. Translation at sight and at hearing is practiced during the whole course at such times as the needs of various classes seem to require. All possible inducements are offered to make the student self-reliant and independent in his work.

The literature, history, social and political ideas of the Greeks, their position in ancient civilization and relation to modern life and thought, are topics which occupy a very important part of the work in this department. In this way, it is sought to inspire a living interest in the civilization of ancient Greece, to show the essential unity of history, and to encourage the study of ancient life for the lessons which it has for the present time.

## III. COURSES.

1. *Lysias*.—Selected orations are read almost exclusively as a study of language. Review of the more difficult parts of Greek Grammar. Special attention to the translation and syntax of the Greek verb. Weekly exercises in Greek Prose Composition; these exercises are based upon the text read. Occasional written translations and examinations. First term, Freshman year.

2. *Herodotus and Thucydides*.—Selected portions of one or both authors. Peculiarities of dialect of Herodotus. Formation and derivation of words. Literal translation. Reading of assigned portions of standard Greek histories. Second term, Freshman year.

3. *Homer*.—Odyssey, Books 1, 2, 9-12. Dialect, metre, syntax, style. Topics for investigation assigned to members of the class. The object sought is to help the student to understand and to appreciate, rather than to criticise, the Homeric Poems. Third term, Freshman year.

4. *Xenophon*.—Selected portions of the Memorabilia. The life of Socrates. For students in the Philosophical course. First term, Sophomore year.

5. *Demosthenes*.—Olynthiacs and Philippics. History and politics of the Macedonian Period. Lectures on the Greek poets. Second term, Sophomore year.

6. *The Greek Drama*.—Sophocles or Euripides. For the present, the Oedipus Tyrannus is read. The origin and development of the drama, the Greek theatre, and the metres of the drama. First term, Junior year.

7. *Plato*.—The Apology and Crito. Philosophy and religious ideas of Socrates. The Sophists. Topics for investigation in standard authors. Extracts from the Memorabilia at sight. Third term, Junior year.

8. *Demosthenes*.—De Corona. Designed to supplement course 5 and to make a critical study of the oratory of Demosthenes from both a literary and political point of view. Second term, Senior year.

9. *New Testament, Greek*.—One of the Gospels and some of the Epistles. A course in rapid reading designed to familiarize the student with the

style, so that he may continue to read the Greek New Testament throughout his College course. Second and third terms, Freshman year, weekly. Also an Elective third term, Senior year, five hours a week.

#### IV. HONOR COURSES IN GREEK.

10. XENOPHON.—The symposium. A study of social life in Greece. Sophomores and Freshmen. Winter term. One hour a week.
11. THUCYDIDES.—Selections. Sophomores and Freshmen. Spring term.—One hour a week.
12. ARISTOPHANES.—The Clouds. Seniors and Juniors. Winter term. One hour a week.
13. PLATO.—The Phædo.—Intended as an introduction to a study of Greek Philosophy.—Seniors. Fall term. One hour a week.

#### V. TEXT BOOK.

Stevens' Select Orations of Lysias ; Mather's Selections from Herodotus and Thucydides ; Merry's Odyssey, Books 1-12 ; Seymour's Introduction to the Language and Verse of Homer ; Tyler's Olynthiacs and Philippics ; White's Oedipus Tyrannus ; Dyer's Plato's Apology and Crito ; Wynan's Memorabilia ; D'Ooge's De Corona ; Humphrey's Clouds ; Wagner's Phædo ; Scrivener's or Wescott and Hort's Greek Testament ; Hadley and Allen's Greek Grammar ; Liddell and Scott's Greek Lexicon ; Oman's History of Greece.

#### V. HEBREW LANGUAGE.

##### PROFESSOR HULLEY.

It is the aim of this course to give the student a working knowledge of the Hebrew language.

**1. Elements of Hebrew.**—Inductive Method, Alphabet, Grammar Forms, Vocabulary, Translation and Transliteration of Hebrew to English and English to Hebrew, Accents and Signs. Harper's Method and Manual.

**2. Advanced Hebrew.**—Word Lists, Rapid Reading, Sight Translation, Elements of Advanced Grammar, Syntax and Principles of Textual Criticism, Interpretation and Exegesis.

**3. Cognates.**—Instruction will be offered at any time in the elements of Arabic, Aramaic, Syriac, Assyrian, Ethiopic and Talmudic Hebrew.

Two terms, Seniors and Juniors.

#### VI. MODERN LANGUAGES.

##### PROFESSOR LOOMIS.

In the Classical Course there are, as required studies, daily recitations in both French and German for a period of thirteen weeks. Attention is given, first, to the elements of Grammar ; afterwards, to the critical reading of some of the masterpieces of either language. The method of instruction is inductive as



well as deductive, and as large a proportion of attention as can profitably be so devoted within the limitations of a college course is aimed to be given in both languages to practical exercises. These embrace an extended course in French and German Composition.

In both divisions of the Philosophical Course, the study of German is continued as a daily recitation through the Freshman year. The students in the Scientific Course likewise take French as a daily recitation through the Freshman year. Other divisions of the Scientific Course recite French with Classical students.

French and German may each, as optional studies, continue to be pursued by all students in a daily recitation for two additional terms. The following are the details of courses offered:

#### GERMAN.

**1. Required**, in Classical Course.—Whitney's Brief German Grammar, Translation of German Exercises into English. Review of Grammar. Translation of English Exercises into German. Irregular Verb. Dictation Exercises. Lyrics and Prose Selections memorized. Joynes' Reader, 100 pages. *Five hours.*

**2. Optional**, for all courses.—Joynes' Reader, completed, 50 pages. Boisen's Prose Reader, 180 pages. Practice in writing the German Script. Prose Composition. *Five hours.*

**3. Optional**, for all courses.—Boisen's Reader, completed, 35 pages. Roquette's *Der Gefrorene Kuss*, 53 pages. Auerbach's *Tales from the Black Forest*, 83 pages. Keller's *Dietegen*, 75 pages. Dahn's *Felicitas*, 142 pages. Harris' Prose Composition—one selection out of every four to the end of the book, being about 20 pages of English text. *Five hours.*

#### FRENCH.

**1. Required**, for Classical and Philosophical Courses.—French Pronunciation. Whitney's Brief Grammar, with Translation of French Exercises into English. Review of the Grammar. Translation of English Exercises into French. Irregular Verb. Selections in Prose and Verse memorized. Whitney's Introductory Reader, 164 pages. *Five hours.*

**2. Optional**, for all courses.—Fontaine's *Historiettes Modernes*, vol. 1, 116 pages; vol. 2, 137 pages. Selections from O'Connor's *Choix de Contes Contemporains*, 56 pages. French Composition. *Five hours.*

**3. Optional**, for all courses.—Mannechet and Pylodet's *Théâtre Français Classique*,—the portion relating to Corneille, 39 pages. Corneille's *Le Cid*; Selections from Lafontaine, 79 Fables. Selections from the comedies of Labiche and Martin, 78 pages. Selections from Prosper Mérimée, 92 pages. Selections from Ludovic Halévy, 77 pages. The Laws of French Prosody. French Idioms studied in 264 selected sentences. Stewart's Prose Composition, 21 selections. *Five hours.*

### VII. MATHEMATICS AND ASTRONOMY.

#### PROFESSOR BARTOL.

**Solid Geometry.**—The course includes the study of lines and planes in space, solids with plane surfaces, the spherical triangle, and common forms of solids with curved surfaces, such as the cone, the cylinder, and the sphere.

The student is required to demonstrate the theorems of the text-book. But a prominent part of the course is the original demonstration of additional theorems, and applications in the solution of numerical problems.

**Trigonometry.**—The course includes Plane Trigonometry, with applications to problems in mensuration and surveying, and Spherical Trigonometry, with some applications to problems in nautical astronomy.

Functions of the angles are considered as ratios. The method of representing these functions by lines, and the use of these lines in investigating the relations of the functions, is discussed at some length. Time is given to the numerical illustration of principles, for the purpose of making sure that the meaning and use of formulæ, demonstrated and learned, is thoroughly understood.

**Higher Algebra.**—The topics discussed are ratio and proportion, variation, progressions, permutations and combinations, binomial theorem, undetermined coefficients, summation of series, logarithms, general theory of equations, and the solution of higher numerical equations. Some time is given to the graphical representation of the relations of quantities. As a means to clear and concise proofs of the binomial theorem, logarithmic series, and exponential series, the elementary theory of derivatives is introduced in a course of lectures.

**Analytical Geometry.**—The student will be taken through the elementary properties of the right line and the conic sections. There will be, in addition, a brief discussion of the general equation of the second degree, some important higher plane curves, and loci in space. The course is intended to give a clear conception of the method of Cartesian Analysis, rather than an extensive knowledge of its results.

**Surveying.**—Fourteen weeks are given to this subject. In chain surveying, full directions are given for measuring and ranging out lines, for making and reducing field notes, and for plotting. In compass and transit surveying, a careful study of the necessary instruments is made. The student is taught their adjustments and the best methods of reducing their errors. He is instructed in the various ways of obtaining the proper data in the field, for his work, and in the best tests of the accuracy of his field notes. He is made acquainted with the variations of the compass, and such tables and methods are furnished him as will enable him to establish, with some precision, his geographical meridian, and undertake the retracing of old lines. The system practiced by the government in the survey of public lands is fully set forth. Under the subject of city surveying, full directions are given with respect to grades, sewers, the establishment of permanent reference points and the adjustment of property lines. Under mine surveying, in connection with those things peculiar to this branch, directions are also given for running contours and sketching topography. Some observations are made for latitude and time.

**Differential Calculus.**—This course proceeds throughout upon the method of infinitesimals, but for purposes of comparison, the student is instructed also in the method of limits. The course includes the differentiation of algebraic and transcendental functions, the development of functions into series, evaluation of undetermined forms, determination of maxima and minima,



and applications to the theory of curves. The rules and principles are illustrated and enforced by numerous examples of a practical character.

**Integral Calculus.**—The course includes the methods of integration by parts, by substitution and rationalization, by successive reductions, and by series. There are some applications of integration to plane curves, to plane areas, and to certain volumes. The utility of this analysis is exemplified by the solution of a variety of problems in mechanics and astronomy.

**Astronomy.**—The required course is completed with the subject of General Astronomy, but the aim is to treat astronomy not merely as an application of mathematics, but as a science which forms an essential part of a finished education. This subject is taught by text-book, with illustrations in the observatory, and some lectures. There is free use by the student of the ten-inch equatorial telescope, to verify the statements of descriptive astronomy.

**Practical Astronomy.**—Observations are made for time and to determine the errors of the transit instrument. The use of the micrometer is taught and the value of one revolution of its screw is determined experimentally. The adjustments of the equatorial for correct position are made. Observations are made for azimuth, and for latitude and longitude. The student is required to make all such astronomical observations as are requisites in a practical acquaintance with the subject of geodetic surveying, and to reduce his notes in the use of the nautical almanac and methods of reduction not involving the calculus. Time is given to calculations of eclipses and star occultations.

The following books are used: Bartol's Geometry, Well's University Algebra, Miller's Treatise on Trigonometry, Nichol's Analytical Geometry, Hardy's Calculus, Carhart's Plane Surveying, Olmsted's College Astronomy, Loomis' Practical Astronomy.

## VIII. CHEMISTRY AND PHYSICS.

PROFESSOR OWENS.

**Physics.**—The course in Physics extends through the Junior year, supplemented by a course of lectures on Electricity and Magnetism. The first term is devoted to the study of the mechanics of solids, liquids, and gases; during the second term, sound, light and heat are taken up, while the third term is devoted to Magnetism and Electricity. This latter course is optional in the Classical and required in the Philosophical and Scientific courses. In the class-room, the text-book and lecture methods are combined, each point being illustrated as far as possible by experiment.

Students who desire, may take an experimental course in the Laboratory, devoting about five hours a week to laboratory work. Such work is taken in addition to the required class-room work, and if a grade of nine or more is attained, the work is credited as an "Honor Study."

Students who have completed the general course in Physics and the experimental course, may take up special lines of investigation under the direction of the Professor.

**Descriptive Chemistry** is taught by text-book and lectures. The object of the course is to give the student a general knowledge of the most common elements, their sources, use, compounds and behavior towards other elements

and compounds, and to drill the student in writing formulæ and solving chemical equations. To accomplish this, each student will be expected to spend at least five hours each week in the Laboratory, studying the characteristics and reactions of the elements and their compounds, and performing the more simple experiments outlined in the text and lectures. Notes will be kept by each student, describing the experiment and giving the equation which represents the reactions that take place. The Professor will, from time to time, examine the note-books, and make such suggestions as he thinks helpful.

In order to give those who have not studied Chemistry in their preparatory course a general idea of the aims and scope of the subject, and the methods by which it is studied, a course of experimental lectures is delivered to the Freshmen during the third term.

**Analytical Chemistry** is open to those only who have completed and been examined in Descriptive Chemistry. In this course, students examine a number of known solid and liquid substances, noting their various reactions. They are then given unknown substances, several in one mixture, which they are required to determine. The course is completed when fifty unknown mixtures have been determined and correctly reported.

**Quantitative Analysis** comprises those determinations which will be most useful to the student of general culture. It also offers to the specialist an opportunity to become acquainted with the methods of separation and manipulation. It is open to those who have taken General and Analytical Chemistry.

Students wishing to follow special lines of investigation, can do so under the direction of the Professor.

**Organic Chemistry** can be elected by those who have completed the Analytical Chemistry. The aim in this course is to acquaint the student with the methods by which the typical and most useful organic compounds are built up and how their structural formulæ are determined.

**Applied Chemistry**, covering some topics in Medical Chemistry and Toxicology, Soil Analysis, Water Analysis, Organic Analysis and Analysis of Iron Ores, can be pursued by those who have completed the Analytical courses.

**Chemical and Physical Society.**—A society for chemical research holds meetings bi-weekly to discuss questions in Chemistry and Physics.

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## IX. ORGANIC SCIENCE.

PROFESSOR GROFF.

**Physiology, Hygiene and Sanitary Science.**—The great importance of these studies is recognized. Instruction is given by means of text-books and lectures. In the Freshman year, students in all the courses of study are required to attend a course of lectures on topics pertaining to personal Hygiene. The object of the course is to show to students how they should live during the college course in order to maintain the highest degree of good health. In the Sophomore year, there is given to the students of all the courses, a series of lectures on Animal Physiology. It is the aim of these lectures to teach the elements of Anatomy and Physiology in a comparative manner, in the belief that better work can be done, than by confining the attention to the human subject alone. This course is illustrated by means of a French manikin, an excellent skeleton, numerous dry and wet preparations, fresh specimens, and a large num-



ber of charts designed to facilitate the pursuit of these studies. In the Senior year, there is delivered a course of lectures on Sanitary Science, in which drainage, heating and ventilating, disposal of waste, contagious diseases, sanitary regulations and other topics which interest modern sanitarians, are discussed. In the Senior year, a course in Comparative Anatomy and Human Osteology is offered to students as an elective. This course is open only to those who have taken Animal Physiology. To the scientific students a course of lectures is given on accidents and emergencies.

**Botany.**—There is no study, which, when rightly pursued, can better develop and strengthen the perceptive powers of the mind than Botany. This work is taken up first in the Sophomore year, after the students have studied General Chemistry, thus preparing them to understand the lectures on Plant Physiology. After a few weeks spent in the study of botanical terms and the anatomy of plant tissues, studied from plants and charts, the student commences to analyze plants. At first this is done in the class-room. Each student has the same plant, and also a blank schedule which requires an exhaustive analysis of the root, stem, leaf, flower and fruit. Students read off the characters of the plant from the plant itself, following the order of the schedule. In a few days they are able to do this readily. They may then perform the analysis in their rooms. As an evidence of work done, the analyses are required to be written out in ink, and students cannot pass in the study until one hundred and twenty-five of these are presented. The botanical text-book is used only for its key, by means of which the name of the plant is found, but the name is, by this method, the last thing obtained; all the visible characters are first studied. This course is supplemented with lectures on the elements of Plant Anatomy and Plant Physiology. To advanced students, a course in Plant Histology will be offered. Charts, compound microscopes and dried specimens comprise the available equipment for this work. All students are required to take the first course in Botany.

**Biology.**—A course in Biology is offered in the Junior year to students in the department of Science. This course will consist of lectures and laboratory work, and is open to those who have taken Animal Physiology and Botany. Advanced work is offered to students prepared. The Laboratory is provided with material and with compound microscopes, sufficient in number to afford opportunity to each student of devoting several hours a week to practical work. A small charge will be made for material used.

**Zoology.**—In this study, instruction by text-book and lecture is combined with laboratory practice. A small charge is made for the use of instruments. This course and the one in Biology are recommended to students looking forward to the study of medicine.

An advanced course, devoted to original research, is offered to students qualified.

**Animal Histology, Plant Histology, Animal Embryology, Human Osteology and Comparative Anatomy** are offered as electives to advanced students.

**Determinative Geology and Mineralogy.**—Instruction is given by text-book and lectures, and supplemented by laboratory practice. The course

opens with laboratory work in Mineralogy and Lithology. Each student is expected to collect and to label correctly, a set of all the minerals and rocks within a radius of several miles of the College. All accessible fossils are carefully studied. Instruction in Field Geology is given in the field. The collection of minerals belonging to the College has been re-arranged with special reference to this work. A course in Blowpipe Analysis is offered to advanced students, and is recommended to all who desire a reliable knowledge of minerals. A small charge is made for material consumed.

## X. ECONOMICS AND POLITICAL SCIENCE.

I. *Economics* is considered as the science of exchanges, and is followed into its practical applications in manufacturing, banking, national credit and international commerce, with illustrations from well-known facts and current events. It is insisted that any stable system of economy must find its foundation in ethical principles.

There will be held daily recitations from Marshall's "Economics of Industry" and Andrews' "Institutes of Economics," supplemented by lectures, and by debates on the part of the class.—PROFESSOR PERRINE.

II. *American Constitutional Law*.—During the Spring term, the study of American Constitutional Law is open to students of the Senior class. The work will consist, not so much in a study of the Constitution itself, as in a study of the Law that has grown out of the Constitution during a century of use. Cooley's "Constitutional Law," or Van Holst's "American Constitutional Law," will be made the basis of work in the class-room; while special topics will be assigned for individual study and subsequent discussion in the class-room.

Reference will be made to Hare's "American Constitutional Law," Baker's "Annotated Constitution of the United States," Cooley's "Constitutional Limitations," and "Constitutional History as Seen in American Law."—PROFESSOR HAMBLIN.

III. *Roman Law* may be taken as an elective in the second term of the Senior year. The subject is treated historically. Morey's Roman Law forms the basis of the work. The text-book is supplemented by lectures and collateral reading.—PROFESSOR ROCKWOOD.

## XI. MEDIÆVAL AND MODERN HISTORY.

PROFESSOR HULLEY.

A somewhat extensive acquaintance with Ancient History is a requirement for admission. The historical course in College is devoted, first, to the History of Mediæval Europe, with a view to ascertaining the principles which have governed its social and political development; secondly, to the History of Modern Nations, with the object of showing how have been evolved the form and character of its States as they now exist. The method of study is a varied one, being by text-book, lectures and topics assigned for individual research.

The following courses are offered:



I. *History of Mediæval Europe.* Senior Elective. First Term. Five hours.

II. *American Constitutional History.* Junior and Senior Elective. First term. Five hours.

III. *History of England.* Junior and Senior Elective. Second term. Five hours.

## XII. BIBLICAL LITERATURE.

SUPPLIED BY PROFESSOR HULLEY.

The aim of this department is to impart (1) correct methods of Bible study ; and (2) an appreciation of the forms and subject-matter of Biblical Literature. The language will be studied inductively, by the aid of Harper's "Introductory Method and Manual," and Grammar. The English courses will be supplemented by a series of lectures extending throughout the year.

The topics to be treated are as follows :

**Lectures :** The Bible as a Classic; the Bible as a Library of Books; the Bible in its Formation ; its influence on early civilizations ; the civilizations imbedded in it ; its essential ideas and their development ; its institutions ; its literary forms ; the names, order, number, date, destination, purpose, plan, style, contents, teaching and history of selected books ; methods of Bible study ; historical methods of interpretation ; spirit, motive, present condition and results of Bible study ; the distinctive purpose of the Bible ; its Divine Origin and Mission ; and the Bible as central and vital in English History, Literature and Civilization.

The Courses in English Bible are :

1. *Wisdom Literature.*—The "Wisdom Books" will be analyzed ; their contents studied, and their subjects classified.

2. *Psalms.*—This study includes : The periods and development of Psalmody ; the growth of the Psalter ; the special religious revivals producing it ; its divisions, authors, superscriptions, versions, contents, and order of Psalms ; the historical occasion of their composition ; their various literary forms ; their editorial, musical and liturgical elements, and the following groups : The Davidic, Korahite, Asaphic, Maccabæan, Pilgrim, Hallelujah, Coronation, Elegiac, Imprecatory, Alphabetic, and the Psalms of the Exile, Restoration and the Later Temple. Winter term, Seniors and Juniors.

3. *The Founding of the Church.*—The text will be the Acts of the Apostles. The subjects will be the Church's inception, formal organization, initial activity, internal life, missionary enterprise, and the establishment of churches.

4. *The Pauline Epistles.*—Their historical origin, plan, purpose, materials and characteristics of each ; their chronological order ; the development and progress of their teachings ; and the life, experiences, and views of their writer will be studied. Seniors and Juniors.

5. *Prophecy.*—A course in Prophecy will be offered at option of the class as a substitute for the New Testament courses this year. It will include the historical periods of prophecy ; the literature, ideas and men of each period ; the work of the prophets as politicians, reformers, theologians, ethical teachers and preachers, and the contribution of each period to the Messianic Hope.

## XIII. MENTAL AND MORAL SCIENCE.

## THE PRESIDENT.

The studies in this department are pursued in the Senior year and embrace Psychology, Philosophy, Anthropology, Ethics and Evidences of Christianity.

Daily recitations are had in Psychology during the first term of the Senior year. Baldwin's Psychology is used as a guide to the student in interpreting the facts of his own consciousness. All the definitions are carefully tested, and informal expository lectures are given upon the topics discussed in the text-book. Students are required to pursue an extensive course of collateral reading in works which can be obtained in the Library of the College. The course of reading for 1894 will consist of designated portions of Ladd's "Physiological Psychology," Sully's "Outlines of Psychology," Porter's "Human Intellect," and other authorities. Oral discussions on assigned topics are held, in which every member of the class is required to take part. Frequent written examinations and theses on assigned subjects, test and deepen the student's knowledge. An honor course in Hamilton's "Lectures on Metaphysics," five hours per week, is offered to the Seniors during the Fall term.

The Seniors, in the second term, pursue the study of Ethics, inquiring into the fundamental principles of the science. Calderwood's "Moral Philosophy" is used as the basis of instruction. The student reads and reports on designated portions of the works of Plato, Aristotle, Kant, Butler, Janet, Wuttke, Strong, and other leading authorities in Ethics and the Philosophy of Religion. Four hours.

A course in the History and Principles of Philosophy is given the Seniors in the second term. This course includes a general acquaintance with the life and teachings of Socrates, Plato, Aristotle, Descartes, Locke, Leibnitz and Kant. Two hours.

An honor course in the Philosophy of Education, is offered for the Winter term, and in Bowen's "History of Modern Philosophy" for the Spring term.

In the third term of the Senior year, a course is given in the Philosophy of Religion, covering those topics that are at present occupying the attention of thoughtful men. Five hours.

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SCHEDULE FOR 1894-95.

i. Psychology. Baldwin.

Reading in Ladd's Physiological Psychology, Porter's Human Intellect, and other authorities.

Seniors. First term. Five hours.

2. Honor course. Hamilton's Metaphysics.

Seniors. First term.

3. History of Education. Lectures.

Juniors. First term. One hour.



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4. Ethics. Calderwood. Lectures and Readings.  
Seniors. Second term. Four hours.
  5. History of Philosophy.  
Lectures, Theses, and Readings.  
Seniors. Second term. Two hours.
  6. Honor course. Philosophy of Education. Rosenkranz.  
Seniors. Second term.
  7. Philosophy of Religion. Diman's Theistic Argument, and Lectures.  
Seniors. Third term. Five hours.
  8. Honor course. Bowen's Modern Philosophy.  
Seniors. Third term.
  9. Anthropology. Lectures.  
Seniors. Third term. One hour.



## LIBRARIES AND APPARATUS.

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### THE LIBRARIES AND READING-ROOM.

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*Librarian* : PROFESSOR FREEMAN LOOMIS, PH. D.

*Assistants* : WILLIAM B. SHEDDAN, FRANK M. SIMPSON.

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***The College Library.***—The general library contains upwards of 12,636 volumes. A reading-room is connected with it. During term-time, both are open forenoon, afternoon and evening of each day, Sundays and holidays excepted, and both are maintained at the expense of the University without extra charge to students. Students are allowed to draw two books at one time and to retain them for two weeks.

The library has now entirely outgrown its former accommodations, but the completion of the new Laboratory building has left vacant the large adjoining room, which is now used for library purposes.

The library is regarded as a working laboratory for all departments of instruction, students being constantly cited to it in class-room work. It is in this way made to answer, not merely the purposes of general culture, but to supplement, in great measure, the monographic treatment of text-book study, and the student is trained under competent guidance to become his own investigator. The resulting practical acquaintance with books and bibliography is certain to prove a valuable part of liberal education. That the demands thus made upon it may be met, it is the purpose to have the library so systematized that all its resources on any given subject shall be at once available.

***The Theta Alpha Society's Library*** has been deposited in the University library, and contains about 600 volumes.

***The Euepian Society's Library*** has been presented to the University, and contains about 550 volumes.

***The Library of the Young Men's Christian Association*** consists mainly of works relating to Missions and Missionary fields and contains about 300 volumes. This collection has also been presented to the University.

One hundred and thirty-six volumes have been added during the year, mostly by purchase from the income of the Backus Estate. Other volumes have been received by gift from the following sources :



E. B. Palmer, D. D., I. Baker Greene, Mrs. Harriet E. Carpenter, Professor Enoch Perrine, Mr. M. W. Cramer, Hon. L. E. Atkinson, Hon. T. M. Mahon, The American Baptist Publication Society, the Mission Band of Bucknell University ; Smithsonian Institute, Young People's Association of the Tabernacle Church, Philadelphia. The following alumni have contributed during the year to the Alumni Alcove : O. P. Eaches, D. D., T. A. Gill, D. D., W. H. Conard, D. D., Rev. A. B. Still, Prof. W. J. Wolverton, Prof. H. M. Kelly, Registrar W. C. Gretzinger, Miss Nellie W. Conard, Rev. S. S. Merriman, Rev. D. W. Sheppard and W. J. Coxey.

**The Reading-Room**, in connection with the general library, is maintained at the expense of the University. By purchase or by contribution, its tables are supplied with the current numbers of between seventy and eighty publications, including the leading scientific, literary and philological reviews, journals of art, and papers of the day.

On shelves adjoining the tables of the reading-room are placed encyclopedias, dictionaries, maps, gazetteers, indices and complete sets of such reviews as The North American, Edinburgh, London Quarterly, Popular Science Monthly and Littell's Living Age.

## THE MUSEUM.

The College possesses a good collection of illustrative materials in Botany, Mineralogy, Geology and Zoölogy. The specimens are distributed under these classifications and those of Archæology as follows :

Botany .....	1,350
Mineralogy .....	3,000
Geology .....	1,575
Zoölogy .....	4,450
Archæology .....	525
Total .....	10,900

Additions to the Museum will always be thankfully received, especially of objects which can be used in class-room.

Among these may be mentioned : Zoölogical specimens, especially marine and fresh-water forms of life; insects, skeletons of vertebrated animals, birds and mammals ; botanical specimens, crystallized minerals, American and especially Pennsylvania rocks.

Contributions have been received for the Museum, during the past year, from Nelson F. Davis, of Bridgeton, N. J.; J. D. MacNab, Prof. George G. Groff, J. W. Hague, Esq., class 1873 ; Show Loo, M. D., of Burma, class of 1864 ; John W. Wagner, Scranton, class of 1892 ; Prof. H. M. Kelly, Evanston, Ill., class of 1888 ; Prof. W. B. Ridenour, Brooklyn, N. Y., class of 1873, and Miss Nannie Wilson, Beaver Falls, Institute, 1887.

## THE ART COLLECTION.

The beginning has been made of a collection of paintings, casts, engravings and heliotypes, for the illustration of the Fine Arts. The specimens now in

possession of the college number about five hundred, of all kinds, and furnish very considerable aid in illustrating the principles and the history of painting and sculpture.

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## LABORATORY AND APPARATUS.

*The New Chemical and Physical Laboratory* affords superior advantages in the study of Chemistry and Physics. The class in Physics has the option of working in the Laboratory. Those electing laboratory work, will be required to devote at least five hours a week to this part of the subject. Several different rooms have been especially fitted up to render them suitable for studying, by means of experiments, the subjects of Sound, Light, Heat and Electricity. Most of the apparatus necessary for experimenting in these branches are now provided and others may be added as occasion may demand.

The commodious experiment room for Descriptive Chemistry will accommodate ninety-six students in two sections. Each student is provided with a desk three feet ten inches long, having upon it gas, water, basin with waste, steam and hood for carrying off foul gases. The most frequently used chemicals and pieces of apparatus will be supplied to each student, to be retained by him during the term, and kept under lock and key. The infrequently used materials will be placed on a table to be used in common by all the students.

In the lecture-room, hoods and ventilating flues enable the Professor to perform experiments involving the generation of foul odors without vitiating the air of the room. All modern conveniences are placed upon the lecture table, as gas, steam, oxygen, hydrogen, exhaust air under pressure, etc. A projecting lantern of the most improved type, made by Newton & Co. (London, Eng.); charts and specimens are freely used to illustrate the subject under consideration.

In the Analytical rooms, full opportunity for individual work is afforded, throwing each student upon his own responsibility in order to accomplish the most complete development. Students are encouraged, when sufficiently advanced, to devise tests and methods of separation other than those mentioned in the text-book, and thus to cultivate the habit of original investigation. Last year, two superior balances were added to the equipment.

The Physical and Chemical Library has a room on the second floor, and offers facilities for the complete investigation of subjects in Physics and Chemistry. A number of scientific periodicals are taken, so that the most recent thought and investigation in any line of work is accessible at any time.

The student is expected to pay for materials used and apparatus broken. To meet this, a deposit will be made in the beginning of the term with the Registrar, and the unexpended balance will be returned at the close of the term.

The Laboratories will be open from 8.30 A. M. to 5 P. M. daily, except Saturday, Sunday and legal holidays.



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## GENERAL COLLEGE ORDERS.

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### ATTENDANCE.

Only under exceptional circumstances will excuses be granted to leave College during term time. In such cases the examinations on the studies gone over by the class, during a student's absence, will be specially searching, and a high degree of attainment will be exacted. One who is absent during an entire term must almost necessarily lose his standing in his class. The work of the term begins on the day of opening, and recitations are expected at the first hour appointed for the meeting of the classes. The work continues uninterruptedly, with the exception of holidays marked in the Calendar, until the last day of the term.

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### STANDING.

Each instructor records, in numbers ranging from 0 to 10, the character of the recitations of every student reciting to him, and notes also any delinquency in conduct and attendance. The weekly summary of these markings is recorded in a permanent book, and constitutes the basis for determining the standing of the student during his connection with the Institution. Unexcused absences from recitations are counted as zeros in making up the weekly averages. At the close of each term an average of these marks is made out, and a report of the scholarship, attendance and conduct of each student is transmitted to his parent or guardian by the President. No student is advanced from one class to another whose average in any study is less than 7.

Conditioned students are not recommended to the Board of Trustees for promotion, and their names in the Annual Catalogue appear with those of the class to which the study in question belongs. Students conditioned on entrance must discharge such conditions within the first year thereafter.

Appointments in the Graduating Class are made according to the aggregate standing of each member during his entire course. But in assigning these parts, the Faculty takes into account the deportment of the student, as well as marks for recitations. The minimum average for an Oration of the First Class is fixed at 9, and for an Oration of the Second Class at 8.

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### EXAMINATIONS.

The dates of the examinations are given in the Calendar. In case a student fails to be present at the examination of his class, for any justifiable reason, his examination will be held at such time as the Faculty may appoint.

## PUBLIC WORSHIP.

The College duties of each day are opened with religious services in Bucknell Hall, which all the students are required to attend.

Attendance upon public worship in some church in town on Sunday morning is required. Students must attend the religious services held on Thanksgiving Day.

On the Day of Prayer for Colleges, religious services are held in the forenoon, and a sermon is preached by the President, or by some one at his request. All the students are required to attend. In the afternoon a prayer-meeting is held in Bucknell Hall, and in the evening another, in connection with one of the churches in town, attendance upon which is urged, though not required.

There is maintained by the students a prayer-meeting on Tuesday evenings, attendance on which is optional.

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## VOLUNTARY SOCIETIES.

***Euepia; Theta Alpha.***—These are the two Literary Societies in College. They have meetings on Friday evening of each week for Orations, Essays and Debates. Each society has a convenient Hall, and, by an arrangement of the Faculty, will always have a nearly equal number of members.

***The Young Men's Christian Association*** comprises students from the College. It receives religious periodicals and corresponds with kindred Societies. A new Hall has recently been appropriated to the Society, and has been suitably furnished for religious meetings.

***The Students' Publishing Association*** is an organization which has in charge the issuing of the "University Mirror." This periodical, of some twenty-four or more quarto pages, appears semi-monthly during the collegiate year.

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## GOVERNMENT.

It is expected that all who enter the courses of study in the College do so for the purpose of acquiring an education, not only of the intellect, but also of character. The Laws of the College, enacted by the Board of Trustees, are as few and simple as the proper regulation of a community of young men will permit. These are printed, and a copy is placed in the hands of every student at the beginning of each year. These Laws must be observed, not only in their letter, but in their spirit. The atmosphere of the Institution is not that of arbitrary restraint, but of reasonable conformity to reasonable laws. The College does not wish to place its stamp or bestow its honors upon any one who is not willing to deport himself as a gentleman. Each student is distinctly placed upon his manhood, and if he abuses his privileges, after reasonable caution, he must withdraw from the Institution.



## PRESIDENT'S OFFICE HOURS.

The President of the University is in his office, in the Main College building, every Tuesday from 9:30 A. M. to 12 noon, to confer with students who may desire advice or assistance. Students are encouraged to communicate frankly with the President upon any subject in which he may be of help to them.

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## HEALTH AND PHYSICAL CULTURE.

### THE TUSTIN GYMNASIUM.

HARVEY FETTERHOFF SMITH, WILLIAM RAE HARPER, DIRECTORS.

*The Tustin Gymnasium* has been provided for the physical training and development of male students. Young women have opportunity for physical education in the Gymnasium of the Institute. These are now provided with the apparatus usually found in well furnished gymnasiums. The Directors of the Gymnasium examine every student, taking and recording in a book his physical measurements, and prescribe such exercises as may be required for his physical development. Regular exercise in the gymnasium is required of all students during the winter term.

*The Athletic Association* of the College has been formed to encourage and regulate athletic sports. Considerable liberty is permitted to the Association in carrying out its purpose. The Association is not allowed, however, to arrange match games with other similar bodies without first having secured the consent of the Faculty.



## AIDS AND HONORS.

### PRIZES.

#### THE FRESHMAN DECLAMATION PRIZE.

A prize is awarded to the member of the Freshman Class who shall excel in declamation at the Annual Contest of the Freshman Class.

The prize was awarded in 1893 to Mary Moore Wolf.

#### THE PRIZE OF THE CLASS OF '71.

This prize, established by the Class of 1871, consists of the sum of twelve dollars, to be awarded to the student of the Freshman Class who shall prove himself best prepared for College in the two branches, Latin and Mathematics, and who shall have received his preparatory training in Bucknell Academy.

The prize for 1893 was awarded to Alexander Douglass.

#### THE FRESHMAN ESSAY PRIZE.

An annual prize is given to that member of the Freshman Class who shall, on or before the first day of June in each year, present the best essay upon a topic to be selected by the Professor of Rhetoric. The Committee of Award will consist of the Professor of Rhetoric and two others, to be designated by the Faculty.

The topic for the current year is "The Character of *Orlando* in 'As You Like It,' " limited to 2,000 words.

#### THE SOPHOMORE DECLAMATION PRIZE.

A prize is awarded to the member of the Sophomore Class who shall excel in declamation at the Annual Contest of the Sophomore Class.

The prize for 1893 was awarded to Edward Gridley Kendall.

#### THE SOPHOMORE ESSAY PRIZE.

A prize is awarded to that member of the Sophomore Class who shall write the best English composition on an assigned subject. The Committee of Award consists of the President, the Professor of Rhetoric and one other chosen by themselves.

The subject for the year 1894 is "Recital of the Plot of Johnson's 'Rasselas.' " The compositions are limited to 2,000 words, and must be presented to the Committee on or before the first day of June.

The prize was awarded in 1893 to Edward Gridley Kendall.

#### THE REGISTRAR'S PRIZE.

The Registrar of the University offers a prize to be awarded to that member of the Junior Class who shall pronounce the best oration at the Junior Exhibition in Oratory.

The Junior oratorical prize was awarded last Commencement to Grace Guthrie.

#### JUNIOR DEBATE PRIZES.

Prizes will be awarded to the two members of the Junior Class who evince superiority in debate at the Junior prize contest.



**THE HOLLOPETER PRIZE.**

William C. Hollopeter, M. D., Class of 1874, has established an annual prize for excellence in Chemistry, to be awarded to that student at graduation who shall have done the best work in Chemistry, regard being had both to the amount and quality of the work.

This prize was awarded, 1893, to Carrie Vanderslice Lloyd.

**THE HERBERT TUSTIN PRIZES.**

In memory of his deceased son, the late Professor F. W. Tustin, Ph. D., of the Class of 1856, paid to the Trustees of the University the sum of five hundred dollars, "as the foundation of the HERBERT TUSTIN PRIZE FUND, the interest of which is to be forever paid annually as two prizes, in the proportion of fifteen dollars for the First Prize, and of ten dollars for the Second Prize, to the two students of the Senior Class who shall have attained the highest and the second highest standing in Psychology and Ethics (under such regulations for the pursuit of these studies as the Faculty of the College shall prescribe from time to time), and whose conduct for the last two years of their course in College shall have been without exception."

The first prize was awarded in 1893 to Ephraim Heim, and the second to Arthur Fremont Gardner.

**THE CHAPLAIN J. J. KANE PRIZE.**

The Rev. James J. Kane, Chaplain in the United States Navy, and a graduate of the Theological Department of this University of the Class of 1867, has established a Prize Fund of one thousand dollars, the interest of which is to be given annually to that member of the graduating class who delivers the best oration on Commencement Day.

The prize was awarded last Commencement to Edward Clayton Pauling.

**THE CHARLES MILLER FELLOWSHIP.**

A fellowship in Chicago University, open only to graduates of Bucknell University, has been founded by Hon. Charles Miller, of Franklin, Pa.

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## SCHOLARSHIPS.

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**I. THE BUCKNELL SCHOLARSHIPS.**

The William Bucknell Scholarships, twenty in number and of one thousand dollars each, were established for the purpose of aiding worthy young men in securing an education which will increase their usefulness in the world. The income of these scholarships is to be paid annually to twenty young men, in accordance with the rules which will be made known upon application to the Committee of Examination, consisting of the President of the University, H. S. Hopper, Esq., and Professor F. E. Rockwood.

**II. SCHOLARSHIPS FOR MINISTERS' CHILDREN.**

Scholarships upon the general foundation have been established for the children of Ministers of the Gospel, of all denominations, in active service.

**III. THE LIVINGSTON SCHOLARSHIPS.**

Established from a legacy of M. B. Livingston, twenty-two in number, are available for students for the Ministry.

#### IV. THE LONGAN SCHOLARSHIP.

The Longan Scholarship, established from a legacy of E. S. Longan, Esq., is available for a student for the Ministry from Lycoming County, Pa.

#### V. ANNUAL SCHOLARSHIPS.

A number of persons have established annual scholarships for the aid of young men or women attending College. Information concerning ministerial and annual scholarships can be obtained from the President of the University.

### HONOR EXAMINATIONS.

In order to promote special scholarship in the several studies taught in the College, the following provision has been made :

1. Any student who has attained an aggregate average of nine in all the studies of the previous term, may take special work in any department of the College, under the direction of the Professor of that department.

2. Such work must be assigned by the Professor, and the method of study prescribed by him.

3. If the student shall attain an aggregate average of nine in all the studies of the current term, and pass a satisfactory examination in the voluntary study before a committee appointed by the Faculty, the work shall be credited to him in the Annual Catalogue of the College.

4. But one such study shall be pursued by any one student during any one term.

5. The Professor under whom the student is working shall have the privilege of requiring a partial examination on the work done at any time during the term, and there may be regular recitations, at the Professor's option.

6. The amount and quality of this extra work shall be taken into the account in awarding honors at graduation.

The following Honor Examinations have been sustained during the past year :

**With the President:** Ephraim M. Heim in Hamilton's Metaphysics ; Ephraim M. Heim in Lotze's Grundzüge der Psychologie.

**With Professor Loomis:** Mary L. Bartol and Grace Guthrie in French ; Mary L. Bartol in German.

**With Professor Groff:** Nelson F. Davis in Botany ; Nelson F. Davis, Herbert S. Schuyler, and Frank M. Simpson in Vegetable Histology.

**With Professor Bartol:** Perry S. Calvin, Franklin R. Strayer, Jessie J. Wheeler, Charles W. Williams, and Alfred Hayes, Jr., in Analytical Geometry ; Franklin R. Strayer in Calculus ; Franklin R. Strayer in Surveying.

**With Professor Rockwood:** Arthur F. Gardner, Grace Guthrie, Edwin Maxey, Edward G. Kendall, and Bromley Smith in Cicero *de Officiis* ; Mary Bell Harris in Ovid.

**With Professor Owens:** Nelson F. Davis in Laboratory Mechanics ; Nelson F. Davis, Harvey L. Fassett, and Levi L. Rigg in Physics ; Harvey L. Fassett, Alonzo C. Lathrop, and Levi L. Rigg in Chemistry.



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**With Professor Perrine :** Perry S. Calvin, Charles F. Hall, Edward G. Kendall, Cora R. Perry, David Phillips, and Bromley Smith in Middle English ; Ralph R. Snow in Shakespeare.

**With Professor Hamblin :** Robert B. Davidson, James R. Hughes, and Joseph R. Wood in the Clouds of Aristophanes ; Grace Guthrie in the Apology of Plato ; Alexander Douglass, Frank W. Jackson, Andrew G. Loomis, Herbert M. Pease, Albert C. Rohland, and Albert W. Stephens in the Symposium of Xenophon ; Edward G. Kendal in the New Testament Greek.



EXPENSES.

The Study Rooms are so arranged that two students occupy the same study. The Dormitories are intended to accommodate only one person, so that each student has his own private sleeping room. These are furnished with new spring bedsteads. The student must supply himself with all other furniture. Students are responsible for damage to their rooms, whether it be done when they are present in the room or absent from it.

The College charges amount to eighty dollars per annum, and are apportioned as follows :

	Per Annum.
Tuition.....	\$50 00
Room-rent, Fuel and Incidentals.....	30 00
	<hr/>
	\$80 00

These charges must be paid in advance at the beginning of each term. The charge for incidentals is exacted from all students.

No student is entitled to his place in his class until he has made settlement with the Registrar.

A slight additional charge is made for rooms cared for by the Institution. No deduction will be made except in case of protracted illness.

If a student occupy a study by himself, the charges for room-rent and private fuel will be doubled. The assignments are for one year, and are made the first Monday morning in June, immediately after the devotional exercises in Bucknell Hall. Students from a distance will save inconvenience by applying to the Registrar for a room before the term opens.

Young men in the Collegiate Department, who so desire, can have furnished rooms, with board, in the East Hall of the Academy ; young ladies in the same department have their residence in the Institute. For rates apply to the Registrar.

Free scholarships, covering tuition, are also provided in all the departments of the University for children of Ministers of the Gospel, *in actual service*.

In the laboratories students pay for chemicals used and for apparatus broken or damaged. In the Chemical Laboratory this will amount to about \$12.00 for Analytical and \$3.25 for General Chemistry, depending upon the care of the student. Before entering upon the experimental courses students must deposit with the Registrar security for materials used.

The Expenses for Music and Printing for Examinations and Anniversary occasions are paid for by the classes for which such expenses are incurred. Graduation fee and Diploma, five dollars. Degree of Master of Arts and Diploma, five dollars.

Many students board in clubs at a cost of from \$2.00 to \$2.50 per week. Excellent boarding can be obtained in private families at \$3.00 or \$4.00 per week, or at the table of the Bucknell Academy at \$3.00 per week. Washing is



done at 25 cents per week. No boarding is allowed in the College Buildings. It will be a matter of economy to bring some articles of furniture, especially bedding and carpets, from home. The dimensions of the study rooms are twelve by twelve feet ; of the dormitories, twelve feet by six feet ; of the bedsteads, seventy-five inches by thirty inches.

***For information respecting the College, address the President of the University, John H. Harris, Ph. D., LL. D.***



FORTY-THIRD

## HONORS AT GRADUATION.

*SUMMA CUM LAUDE:*

*MAGNA CUM LAUDE:*

CARRIE VANDERSLICE LLOYD,  
EUGENIO KINCAID THOMAS.

JOHN HAMMOND FORESMAN,  
EDWARD CLAYTON PAULING,

### ORATIONS OF THE SECOND CLASS.

DEGREES CONFERRED.

**BACHELOR OF ARTS.**

EPHRAIM M. HEIM,  
EUGENIO KINCAID THOMAS,

JOHN BRICE CRESSINGER,  
CARRIE LOUISA GEARY,  
EDWIN MAXEY.

**MASTER OF ARTS.**

JAMES HARRY HASLAM,  
JOHN IRVEN WOODRUFF.

**DOCTOR OF DIVINITY.**

**DOCTOR OF PHILOSOPHY.**

THE REVEREND REECE WILMER PERKINS, A. M., B. D.

GEORGE P. BIBLE.



# THE ACADEMY.

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## INSTRUCTORS AND OTHER OFFICERS.

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JOHN HOWARD HARRIS, PH. D., LL. D.,

PRESIDENT OF THE UNIVERSITY.

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WILLIAM EMMET MARTIN, A. M., PRINCIPAL,

HISTORY AND RHETORIC.

ALBERT BURNS STEWART, A. M.,

MATHEMATICS.

GEORGE EDWARD FISHER, PH. B.,

ENGLISH AND SCIENCE.

LLEWELLYN PHILLIPS, A. B.

GREEK.

EPHRAIM M. HEIM, A. B.,

LATIN.

MRS. ANNIE M. BLACK,

MATRON.

WILLIAM CHRISTIAN GRETZINGER, PH. B.,

REGISTRAR OF THE UNIVERSITY.

# STUDENTS.

## THE FOURTH FORM.

### CLASSICAL.

NAME.	RESIDENCE.	ROOM.
JOHN TRUMAN ANDERSON,	<i>Lewisburg.</i>	Mrs. Margaret Anderson.
ELWOOD HERBERT DUTTON,	<i>Lewisburg.</i>	Mrs. Fannie R. Dutton.
EDWARD FLINT,	<i>Philadelphia.</i>	No. 5, Main Hall.
ANDREW ALBRIGHT LEISER, JR.,	<i>Lewisburg.</i>	A. A. Leiser, Esq.
CHARLES ARTHUR LINDEMANN,	<i>Philadelphia.</i>	No. 15½, West Wing.
HIRAM LONG PURDY,	<i>Sunbury.</i>	No. 3, Main Hall.
ROBERT GREEN SLIFER,	<i>Lewisburg.</i>	Mrs. C. V. Slifer.





## SCIENTIFIC.

NAME.	RESIDENCE.	ROOM.
DAVID HAYES ELLIOTT,	<i>Hartleton.</i>	No. 3, Main Hall.
AMZI WILSON GEARY,	<i>Carbondale.</i>	No. 9, East Hall.
JAMES BROWN MARTIN,	<i>Lewisburg.</i>	Prin. W. E. Martin.
JOHN ELMER SAUL,	<i>Uwchland.</i>	No. 5, Main Hall.
JOHN WALLS,	<i>Lewisburg.</i>	Mr. W. C. Walls.

## THE THIRD FORM.

## CLASSICAL.

NAME.	RESIDENCE.	ROOM.
CHARLES BALDRY AUSTIN,	<i>Lewisburg.</i>	Rev. C. B. Austin.
GEORGE LIVINGSTON BAYARD,	<i>Plymouth Meeting.</i>	No. 21, East Hall.
EDWARD BELL,	<i>Bellwood.</i>	No. 22, East Hall.
BRYANT EVANS BOWER,	<i>Lewisburg.</i>	F. E. Bower, Esq.
HERBERT NORMAN BUTLER,	<i>East Lewisburg.</i>	Mr. J. W. Butler.
SAMUEL JOSEPH CLEELAND,	<i>Philadelphia.</i>	No. 4, Main Hall.
EMANUEL WILSON COBER,	<i>Pine Hill.</i>	No. 10, Main Hall.
LOGAN CARNEY CRISMYER,	<i>Lewisburg.</i>	Mr. Samuel Crismyer.
OLIVER JOHN DECKER,	<i>Duboistown.</i>	No. 7, Main Hall.
CHARLES WAY HARVEY,	<i>Unionville.</i>	Mrs. Fannie R. Dutton.

JAMES JARRETT HOBBS,	<i>Erie.</i>	No. 10, Main Hall.
HARRY BENJAMIN LEVIS,	<i>West Chester.</i>	No. 16, West Wing.
CHARLES PAUL MEEKER,	<i>Philadelphia.</i>	No. 20, West Wing.
EDWIN NESBIT,	<i>Lewisburg.</i>	Mr. J. C. Nesbit.
CHARLES JUDD PEARSE,	<i>Kane.</i>	No. 8, Main Hall.
FRANK GARF PERRIN,	<i>Edgemont.</i>	No. 2, West Wing.
JOSEPH THOMPSON SNYDER,	<i>Lewisburg.</i>	Miss Kate J. Thompson.
WILLIAM MYLES WARREN,	<i>Germantown.</i>	No. 4, Main Hall.
THOMAS WRAGG,	<i>Philadelphia.</i>	No. 7, Main Hall.

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SCIENTIFIC.

NAME.	RESIDENCE.	ROOM.
WILBUR FISK ASH,	<i>Northumberland.</i>	Rev. H. M. Ash.
ABBOT GREEN BUCHER,	<i>Lewisburg.</i>	Hon. J. C. Bucher.
WILLIAM BITTENBENDER DITZLER,	<i>Chulasky.</i>	No. 11, East Hall.
EUGENE EYER KERSTETTER,	<i>Lewisburg.</i>	Mr. C. W. Kerstetter.
RALPH FREDERICK KOONS,	<i>Huntingdon Mills.</i>	Mr. C. W. Kerstetter.
WILLIAM STRAWBRIDGE MCCREIGHT,	<i>Lewisburg.</i>	Mr. J. S. McCreight.
FREDERICK WILLIAM MCFARLIN,	<i>Ridgway.</i>	No. 19, East Hall.
OLIVER PRESTON MILLER,	<i>Lochiel.</i>	Mr. S. F. Miller.
MONTY YOUNG SHUSTER,	<i>Renovo.</i>	No. 9, East Hall.
ABBOT WALLS SMITH,	<i>Lewisburg.</i>	Mr. J. C. Smith.
HOMER BURNS SMITH,	<i>Middleburg.</i>	No. 26, East Wing.
MORRIS CRAMER VAN GUNDY,	<i>Lewisburg.</i>	Mr. C. Van Gundy.
JOHN HENRY WEIDENSAUL,	<i>Lewisburg.</i>	Mr. H. A. Weidensaul.



## THE SECOND FORM.

NAME.	RESIDENCE.	ROOM.
MAINEARD LESHER BAKER,	<i>Cowan.</i>	No. 7, Main Hall.
THOMAS REESE BOWER,	<i>Lewisburg.</i>	F. E. Bower, Esq.
HENRY LEONARD CRAIG,	<i>Philadelphia.</i>	No. 11, Main Hall.
ANDREW NEBINGER EVANS,	<i>Montandon.</i>	Mr. W. L. Snyder.
BERTRAND HILLER GIFFIN,	<i>Jamestown, N. Y.</i>	No. 30, West Wing.
ALBERT HUTCHINSON,	<i>Holmes.</i>	No. 12, East Hall.
RALPH SAMUEL KOSER,	<i>Williamsport.</i>	No. 13, East Hall.
CHARLES FREDERICK KULP,	<i>Philadelphia.</i>	No. 20, West Wing.
EDWARD DAVID MITCHELL,	<i>Philadelphia.</i>	No. 11, Main Hall.
PAUL NOGEL REISH,	<i>Vicksburg.</i>	No. 19, East Hall.
WALTER ELMER RUCH,	<i>Northumberland.</i>	Mr. Henry F. Ruch.
JOHN SHERMAN,	<i>Philadelphia.</i>	No. 6, Main Hall.
JOHN LUTHER SIEBER,	<i>Lewisburg.</i>	Rev. L. L. Sieber.
HARRY RUHL THORNTON,	<i>Lewisburg.</i>	T. C. Thornton, M. D.

## UNCLASSIFIED.

NAME.	RESIDENCE.	ROOM.
GEORGE OLIVER BARCLAY,	<i>Milton.</i>	No. 24, East Wing.
GEORGE DYSON BOWERS,	<i>Chester.</i>	No. 12, East Hall.

WILLIAM CHRISTIAN BURNS,	<i>Winfield.</i>	Mr. Samuel Burns.
REESE ALONZO DAVIS,	<i>Mt. Carmel.</i>	No. 11, East Hall.
PIERSOL N. DESCH,	<i>Philadelphia.</i>	No. 17, West Wing.
ANDREW MADISON FORRESTER,	<i>Moreland.</i>	No. 5, Main Hall.
ROBERT HOOD,	<i>Lewisburg.</i>	Mr. C. F. Hood.
DAVID KLECKNER KELLY,	<i>Cowan.</i>	Mr. J. A. Kelly.
DAVID HAMMOND KELLY KLECKNER,	<i>Cowan.</i>	Mrs. Sarah Kleckner.
CHARLES WILLARD KRAMER,	<i>Winfield.</i>	Mr. Elias Kramer.
CRISSIE LIVINGSTON MCQUISTION,	<i>Butler.</i>	No. 15, East Hall.
MARTIN LUTHER ROSS,	<i>Mifflinburg.</i>	Rev. M. L. Ross.
BENJAMIN FRANKLIN SAMPSELL,	<i>Northumberland.</i>	No. 25, West Wing.
HARRY W. GREENE SAVIDGE,	<i>Sunbury.</i>	Hon. C. R. Savidge.
HENRY FROST SCATCHARD,	<i>Norristown.</i>	No. 23, East Hall.
CHARLES SILLIMAN,	<i>Mahanoy City.</i>	No. 17, East Hall.
EDWIN WILKES,	<i>Upper Lehigh.</i>	No. 6, Main Hall.





## SUMMARY.

The Fourth Form, Classical....	7	
Scientific.....	5	12
	<hr/>	
The Third Form, Classical.....	19	
Scientific.....	13	32
	<hr/>	
The Second Form.....	14	
Unclassified.....	17	
	<hr/>	
Total in Academy.....	75	
In other Departments.....	278	
	<hr/>	
Total in all Departments.....	353	

## COURSES OF STUDY.

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The Academy is designed to fit pupils for College, for Teaching or for Business. It affords two Courses of Study.

I. *The Classical Preparatory Course* extends through four years and is arranged to meet the requirements for admission to College. The study of Latin begins with the Second Form and continues for three years. The study of Greek begins with the Third Form and continues for two years. Notwithstanding the time given to these important branches of study, fully one-half of the time of the entire course is devoted to English, Historical, Mathematical and Scientific subjects.

II. *The Scientific Preparatory Course* extends through four years and furnishes adequate preparation for either division of the Philosophical Course in College. The First and Second Forms of the Classical and the Scientific Courses are identical. In the Third and Fourth Forms, the student preparing for the Latin Division substitutes Historical and Scientific subjects for the Greek of the Classical Course ; while the student preparing for the Greek Division substitutes the Greek of the Third and Fourth Forms for the Latin and includes the Historical and Scientific subjects.

Students may enter that Form which they are prepared to pursue with profit.

Students who are able to accomplish more work in the allotted time than is required by the Classical Course, are encouraged to add the special studies of the Scientific Course. They may also pursue extra honor work in the Classics by reading, under an instructor's direction, Cæsar's Civil War, Cicero's Letters, or Sallust, and Books IV, V, VI of the Iliad, or the Hellenica.

Students who are preparing for the English Scientific Course in College can elect the necessary studies from the regular Curricula of the Academy.

Students who do not intend to enter College, but who desire a comprehensive academic training, will find the Scientific Preparatory Course, with Latin, well adapted to prepare them for teaching or for business.

Transient students may elect such studies as they are qualified to pursue from the studies in actual progress in any given term.



## CURRICULA.

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### I. CLASSICAL PREPARATORY COURSE.

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#### FIRST FORM.

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|---|---|
| <p>I. TERM—Arithmetic,<br/>English Grammar,<br/>History of the United States,</p> | <p>Wentworth,<br/>Outlines and Exercises,<br/>Barnes.</p> |
| <p>II. TERM—Arithmetic,<br/>English Grammar,<br/>General History,</p>             | <p>Wentworth,<br/>Outlines and Exercises,<br/>Barnes.</p> |
| <p>III. TERM—Arithmetic,<br/>English Grammar,<br/>General History,</p>            | <p>Wentworth,<br/>Whitney's Essentials,<br/>Barnes.</p>   |

#### SECOND FORM.

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|--|---|
| <p>I. TERM—Higher Arithmetic,<br/>Latin—Lessons,<br/>Grammar,<br/>Rhetoric,</p>                            | <p>Olney's Science,<br/>Tetlow,<br/>Allen and Greenough,<br/>Hill's Elements.</p> |
| <p>II. TERM—Book-Keeping,<br/>Latin—Lessons,<br/>Grammar,<br/>History of Greece,</p>                       | <p>Bryant,<br/>Tetlow,<br/>Allen and Greenough,<br/>Myers.</p>                    |
| <p>III. TERM—Physical Geography,<br/>Cæsar's Commentaries,<br/>History of Rome,<br/>Elementary Botany,</p> | <p>Appleton,<br/>Harper and Tolman,<br/>Myers,<br/>Gray.</p>                      |

#### THIRD FORM.

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| <p>I. TERM—Natural Philosophy,<br/>Cæsar's Commentaries,<br/>Greek—Lessons,<br/>Grammar,</p> | <p>Sharpless and Philips,<br/>Harper and Tolman,<br/>White,<br/>Goodwin.</p> |
| <p>II. TERM—Algebra,<br/>Vergil's Æneid,<br/>Greek—Lessons,<br/>Grammar,</p>                 | <p>Sheldon,<br/>Harper and Miller,<br/>White,<br/>Goodwin.</p>               |

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|---|---|
| III. TERM—Algebra,<br>Vergil's <i>Æneid</i> ,<br>Xenophon's <i>Anabasis</i> , | Sheldon,<br>Harper and Miller,<br>Kelsey. |
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**FOURTH FORM.**

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|---|---|
| I. TERM—Algebra, Quadratics,<br>Latin—Vergil's <i>Æneid</i> ,<br>Prosody,<br>Xenophon's <i>Anabasis</i> ,     | Sheldon,<br>Harper and Miller,<br>Harper and Miller,<br>Kelsey. |
| II. TERM—Plane Geometry,<br>Latin—Cicero's <i>Orations</i> ,<br>Prose Composition,<br>Homer's <i>Iliad</i> ,  | Wentworth,<br>Allen and Greenough,<br>Daniell,<br>Seymour.      |
| III. TERM—Plane Geometry,<br>Cicero's <i>Orations</i> ,<br>Greek—Homer's <i>Iliad</i> ,<br>Prose Composition, | Wentworth,<br>Allen and Greenough,<br>Seymour,<br>Woodruff.     |

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## II. SCIENTIFIC PREPARATORY COURSE.

**FIRST FORM.**

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|--|--|
| I. TERM—Arithmetic,<br>English Grammar,<br>History of the United States, | Wentworth,<br>Outlines and Exercises,<br>Barnes.       |
| II. TERM—Arithmetic,<br>English Grammar,<br>General History,             | Wentworth,<br>Whitney's <i>Essentials</i> ,<br>Barnes. |
| III. TERM—Arithmetic,<br>English Grammar,<br>General History,            | Wentworth,<br>Outlines and Exercises,<br>Barnes.       |

**SECOND FORM.**

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|--|---|
| I. TERM—Higher Arithmetic,<br>Latin—Lessons,<br>Grammar,<br>Rhetoric,                                    | Olney's <i>Science</i> ,<br>Tetlow,<br>Allen and Greenough,<br>Hill's <i>Elements</i> . |
| II. TERM—Book-Keeping,<br>Latin—Lessons,<br>Grammar,<br>History of Greece,                               | Bryant,<br>Tetlow,<br>Allen and Greenough,<br>Myers.                                    |
| III. TERM—Physical Geography,<br>Cæsar's <i>Commentaries</i> ,<br>History of Rome,<br>Elementary Botany, | Appleton,<br>Harper and Tolman,<br>Myers,<br>Gray.                                      |



## THIRD FORM.

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|---|--|
| I. TERM—Natural Philosophy,<br>Cæsar's Commentaries,<br>History of England, | Sharpless and Philips,<br>Harper and Tolman,<br>Guest.   |
| II. TERM—Algebra,<br>Vergil's Æneid,<br>Astronomy,                          | Sheldon,<br>Harper and Miller,<br>Sharpless and Philips. |
| III. TERM—Algebra,<br>Vergil's Æneid,<br>Civil Government,                  | Sheldon's Elements,<br>Harper and Miller,<br>Cocker.     |

## FOURTH FORM.

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|---|---|
| I. TERM—Algebra, Quadratics,<br>Latin—Vergil's Æneid,<br>Prosody,<br>Physiology,                  | Sheldon,<br>Harper and Miller,<br>Harper and Miller,<br>Walker. |
| II. TERM—Plane Geometry,<br>Latin—Cicero's Orations,<br>Prose Composition,<br>English Literature, | Wentworth,<br>Allen and Greenough,<br>Daniell,<br>Pancoast.     |
| III. TERM—Plane Geometry,<br>Cicero's Orations,<br>Geology,                                       | Wentworth,<br>Allen and Greenough,<br>Le Conte.                 |



## METHODS OF INSTRUCTION.

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The Preparatory Curriculum naturally falls into six principal lines of study, viz.: English, Latin, Greek, History, Mathematics, and Natural Science. These combine, in due proportion, the cultural, the disciplinary and the practical elements of intermediate education. The two great divisions of modern study, the Classical and the Scientific, are accorded adequate and appropriate preparation. The subjects, facilities and methods of the various departments are explained below.

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### I. THE ENGLISH LANGUAGE.

A thorough grounding in the principles of English Grammar is indispensable to the student's progress in the subsequent language studies. The continuous application of this knowledge in Composition, and the constant comparison with the forms and idioms of the Ancient Languages, prepare the way for the study of elementary Rhetoric, and the appreciative reading of English and American Literature. The aim is the clear, elegant and forcible use of the mother tongue as the chief instrument of expression.

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### II. THE LATIN LANGUAGE.

The Inductive Method is used in the elementary instruction. The student investigates the formation of the language. The abstract rules of Syntax are learned from the analysis and synthesis of sentences. Careful drill is given in the declensions and conjugations, the use of the moods and the sequence of tenses, in the ready reading of the Latin text, in sight reading and in accurate translation into idiomatic English. Attention is given to the important personal, historical and political elements in the writings of Cæsar and Cicero. In Vergil, the student is introduced to the poetry, legend, religion, philosophy and art of Rome. He is taught to investigate the allegorical, archæological and mythical allusions of the *Æneid*, and to appreciate it as the mirror of the life of the Empire. Latin prosody is taught first from the text, and then from the grammar.

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### III. THE GREEK LANGUAGE.

The first half year of the Third Form is spent in acquiring sufficient knowledge of forms and inflections to commence the study of Xenophon's *Anabasis*. During the last half year, special attention is given to the inflection and syntax of nouns, pronouns and adjectives. The reading of Xenophon is continued in the first term of the Fourth Year, and the forms and syntax of verbs made a



special study. Homer is then read for one term and a half, and the difference between Homeric and Attic forms is noted. During the last half term Xenophon is reviewed, that the student may refresh his knowledge of Attic Greek, and may not find the transition to College needlessly difficult. Almost daily drill is given in turning into Greek, sentences based on the text of Xenophon.

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#### IV. HISTORY.

The course in History includes a survey of the History of the United States, England, Greece and Rome. The aim is not so much to fill the student's mind with a collection of dates, events and personages, as to acquaint him with the life, the genius, the institutions and the achievements of the respective peoples, and their part in the wider history of humanity. Students are encouraged to cultivate the historical imagination; to compare race characteristics, arts and religions; and to appreciate the noble ideals, the heroic struggles and sacrifices, that have imparted imperishable worth to human institutions.

**Civil Government** is taught as a preparation for intelligent citizenship. The origin and growth of our institutions, the functions of the various departments of the National, State and local governments; the political history of the people; the interpretation and construction of the Constitution, are clearly presented and discussed.

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#### V. MATHEMATICS.

**Arithmetic.**—To students who are fitting themselves for business, a course is given in practical business Arithmetic, involving all the ordinary problems and practices in the business world. To those who are preparing for College or for teaching, instruction is given in the theory and science of Arithmetic. Pupils are expected to master the principles and then to formulate their own rules.

**Algebra.**—The course extends through one period daily for one year, and includes a thorough knowledge of the fundamental principles, Factoring, Divisors and Multiples, Fractions, Equations, Involution, Evolution, Theory of Exponents, Radicals and Quadratic Equations. Daily blackboard work serves to apply the principles taught. The student is required both to know the methods of the solution of problems and also to explain the operation to the class.

**Plane Geometry.**—The instruction consists of daily recitations for two terms on the Theorems and Problems given in the text-book, with original demonstration of the same Propositions by the students, from hints and figures given in the class-room. Besides this, considerable attention is given to the solution of original Propositions, and the application of principles thus learned to the solution of numerical problems.

**Book-Keeping.**—A practical introduction to the science of accounts is secured in the term devoted to mastering the principles of Double Entry Book-

Keeping. Careful attention is given to business forms, to the usages of Banks, and to the elements of Commercial Law. The subject may be pursued in its more extended and intricate applications by a second term's work, open to properly qualified students.

## VI. SCIENCE.

**Physical Geography** lays a broad foundation for subsequent work in all sciences. It surveys the earth's physiography, climate, atmosphere, fauna, flora, ocean tides and currents, and geological agencies. Special attention is given to the physical features of the United States. The text is illuminated by drawings, photographs, colored and relief maps, and specimens from the Museum.

**Botany** is taught by text-book, field exercise, plant analysis and weekly lectures. A brief outline is first obtained of plant structure, physiology, growth, and reproduction. The subject is then reviewed by daily drill in analyzing, recording, classifying, and preserving specimens. The recorded analysis of fifty plants is required. Lectures explaining special forms of vegetable growth, the flora of this country, the cultivation, uses, and history of plants complete the work.

**Physiology.**—Every effort is made to impart clear ideas of the structure, parts and functions of the human body. Special attention is given to the chemistry of foods, the laws of health, the effects of stimulants and narcotics. Suggestions are constantly made as to poisons and their antidotes, the care of the sick, disinfection and sanitation, and accidents and emergencies. Charts, manikin and preparations are used in class.

**Natural Philosophy.**—The student is thoroughly grounded in the elements of mechanics and physics. The apparatus of the College laboratory is available for use. The historical beginnings of each subject, and subsequent development, are sketched in brief lectures. No pains are spared to familiarize the pupil with the laws of these sciences, by instruction, experiment, review, and repeated examination. The truth of principles is proved, except where the demonstration involves the mathematics of the higher course in College.

**Astronomy.**—Descriptive Astronomy discusses the earth's relation to the solar system, the masses, motions and orbits of each member of it; the causes and consequences of at least five motions of the earth; general boundaries of the constellations of the Zodiac and Northern heavens; the accepted theories of comets, meteors and nebulae. Charts, star maps, globes, and other apparatus are used, and the student is afforded privileges of observation in the College Observatory.

**Geology.**—The student here masters the elements of lithological, structural, dynamic, and historical Geology. Specimens of various rocks and minerals are handled in class; their composition, characteristics and place in nature are explained; the structure of the earth in its present form is studied; the history of its evolution, the age and characteristics of its strata, the chief geological features of each continent, and the forces at work, and that have worked to produce change are considered.



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VII. ORATORY.

**Class Exercises.**—Members of the Fourth Form prepare and deliver two original orations each term. All other students have regular exercises in Composition and Declamation throughout the year. These exercises are held in Bucknell Hall on Saturday mornings, before the assembled faculties and students of the Institute and the Academy. Visitors are cordially welcomed to these exercises.

In addition to the private rehearsals for the work above indicated, all students receive weekly instruction in Elocution. The course includes careful drill in the Elementary Sounds, in Articulation, and in Expression; Analytical Reading, including the Bible and Hymns, and the study of Shakespeare.

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VIII. SPECIAL BRANCHES.

**Bible Study.**—The study of the Bible is pursued as a regular weekly recitation throughout the Second, Third and Fourth Forms, in both courses of study. The Second Form have recitations covering the sacred narrative from Genesis to Judges; the recitations of the Third Form complete the Old Testament; those of the Fourth Form complete the New Testament.

**Literature Study.**—The reading and study of the masterpieces of English and American Literature is maintained in the Second, Third and Fourth Forms by weekly conferences.

**The Study of Music** may be pursued by Academic students under the instruction of Professor E. Aviragnet and his Assistants, of the School of Music.

**Drawing.**—All students of the Academy may receive throughout the year weekly lessons in Free-hand Drawing. Special individual instruction in Drawing is afforded at twenty-four dollars per annum.

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IX. HEALTH AND PHYSICAL CULTURE.

**The Tustin Gymnasium** affords opportunity for physical exercise in the winter and during inclement weather at other seasons. The Directors of the Gymnasium give regular class exercises to the students of the Academy. Attendance upon physical training in the Gymnasium is obligatory during the Winter Term.

**The Athletic Association** of the Academy has been formed to encourage and regulate athletic sports. The Association is allowed to arrange match games with other similar bodies by first securing the consent of the Principal.

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PUBLIC EXHIBITIONS.

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THIRD FORM.

The Public Exhibition of the Third Form in Declamation will take place on Saturday evening, April 29, 1894, in Commencement Hall.

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FOURTH FORM.

The closing exercises of the Academy will be the Public Exhibition of the Fourth Form in Oratory, on Tuesday morning, June 19, 1894.

## GENERAL INFORMATION.

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### ADVANTAGES.

To the student seeking preparation for College, the Academy offers unusual inducements. Its proximity to the College secures to him an atmosphere of study, acquaintance with the guides and companions of his future course, and the benefit of numerous literary exercises to be found only in College towns. He has access to the College Library and Reading-Room. The Academy is designed to fit its pupils thoroughly for College, for Business or for Teaching. It aims to lay broad and solid foundations for all subsequent scholarly culture, and for the successful conduct of every-day affairs.

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### GOVERNMENT.

Students are encouraged to regard self-government as the only true government. It will be the constant endeavor to secure uprightness of character, gentlemanly deportment, and diligent application to work, by kind treatment, and high standards in conduct and study. The Academy cannot knowingly accept or retain incorrigibles.

#### I. ADMINISTRATION.

1. The general control of the Academy is vested in the President of the University.
2. The government of the Academy, subject to such control, rests with the Principal of the Academy.
3. The government of each Hall is vested in the Instructor in charge, who resides in the Hall and enforces regulations for the Hours of Study, Academy Property, Hygienic Precautions and General Deportment, and such other prudential regulations as may be ordered by the joint concurrence of the President of the University and the Principal of the Academy.
4. Each Instructor will have charge of his class with reference to attendance upon recitations. In case any student is absent twice in any one term, without good excuse, from recitations, or from his room in the evening after the hour of seven, it shall be the duty of the Principal of the Academy to give information of the fact to the parent or guardian of the pupil so offending.

#### II. VIOLATION OF RULES.

1. Any officer of the Institution becoming cognizant of violation of regulations by any pupil shall report the same to the Principal of the Academy, who shall make a record of the fact in a book provided for the purpose. Any second violation by the same pupil shall also be reported to the President of



the University ; and if, in the judgment of the President of the University, and the Principal of the Academy, the offence be of sufficient gravity, the parent or guardian of the offending pupil shall be notified.

2. Violations of these and other prudential regulations shall be punished by private reprimand, or by reprimand in the presence of the students of the Academy by the Principal, or by reprimand before the University by the President, or by suspension, or by expulsion, according to the gravity or repetition of the offence.

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## BUILDINGS AND ROOMS.

The Academy Buildings are described in detail under the "University Property," in the introductory pages of this Catalogue.

**The Main Building** contains, besides its accommodations for other school and boarding purposes, furnished rooms for twenty students. These rooms are designed to accommodate two students each, and are twenty feet by twelve feet, by fourteen feet high. They are sub-divided into a study room twelve feet by ten feet, and a dormitory nine feet square. The dormitory contains a double bed with woven wire mattress. Both rooms are provided with all necessary furniture.

**The New East Hall** contains combined study and sleeping rooms, each designed for two students. These rooms are fifteen feet by twelve feet, with high ceilings ; and contain two commodious closets and two single wire-mattress beds, with all necessary furniture.

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## UNFURNISHED ROOMS.

The Academy has a number of unfurnished rooms for the accommodation of students of mature years and of limited means. No attention by servants is given to these rooms, nor are lights supplied. Two students occupy a study room in common. The dormitories are provided with a double spring bedstead. All other furnishing is to be done by the occupants. While second-hand articles of furniture may be obtained here, it will be to the student's advantage to bring from home bedding and carpets. The dimensions of the study rooms are ten feet by twelve feet ; of the dormitory, nine feet by nine feet.

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## ARTICLES REQUIRED.

Each student should be provided with an umbrella, overshoes, table napkins, towels, soap, and such things usually required for personal comfort. All articles for the laundry should be marked with the owner's name.

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## BOARDING.

All students from a distance will occupy rooms and will board in the Academy, except for reasons jointly satisfactory to the President of the University and the Principal of the Academy.

The Principal and his family, the Instructors and the Matron, live in the building, take their meals with the boarders, and strive in all possible ways to secure the welfare and happiness of the students. The Instructors occupy rooms adjacent to the students' apartments. The appointments of the Dining Room, the character of the table supplies, the household service in general, are designed to furnish the comforts of a first-class boarding house. So far as may be warranted by the gentlemanly deportment of the students, there will be absent from the home-life of the school all needless uniformity and irksome limitations, which disregard the reasonable individual preferences of pupils.

The Academy gives to furnished rooms daily and complete attention, provides and washes all bedding and bed clothing, and supplies and cares for all lights.

Engagements for board and rooms are expected to continue without change to the end of the school year for which they are made.

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## APPLIANCES.

The Academy is in possession of excellent apparatus for instruction. A select Reference Library, containing an Encyclopedia, Lexicons, Dictionaries, Atlases, and various other helps, is accessible to students at all hours. The Classical Recitation Room is provided with Kiepert's Wall Maps of Ancient Geography, and with Reinhard's Album of Classical Antiquities, mounted. Metric apparatus, Maps and Globes render assistance in other directions.

The Physical apparatus of the College also is accessible to the class in Natural Philosophy for purposes of experiment and illustration.

The books of the College Library are available for all students.

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## HOURS.

The time devoted to study and recreation amounts to nine hours every week-day, except Saturday, when it is only one hour. This time should be sacred to its purpose. Parents of day pupils are requested to coöperate with the school in securing attention to evening study hours, and to avoid furnishing excuses or granting occasions for absence.

Students from a distance should be in Lewisburg on the day preceding the opening of each term, and no student should leave until the term shall have closed. Punctuality in attendance is essential to success in school work.

For terms and vacations see the Calendar of the University.

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## STANDING AND PROMOTIONS.

The weekly averages of marks for recitations are recorded, and also failures in conduct and attendance. The scale for such markings ranges from 10, or perfect, to 0, or inexcusable failure. Unexcused absences count as zeros.



Monthly and Term examinations are held in the studies thus far completed, and quarterly reports of the average in scholarship, attendance, and conduct of each student are sent to parents or guardians by the Principal.

No student is promoted to the next higher class whose average in any study is less than 7. A review of the study and a satisfactory examination will be necessary to secure the advanced standing desired.

Students who complete the Preparatory Courses of Study are admitted to standing in corresponding divisions of the Freshman Class in the College, upon the Principal's certificate, without separate examination.

All students who complete in a satisfactory manner either the Classical or the Scientific Course of Study, and who have sustained irreproachable characters during their school residence, shall be entitled to a certificate setting forth their proficiency in the branches studied.

Students attaining an average standing of 9 are encouraged to devote spare time to work additional to the Regular Courses of Study.

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## PRIZES.

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### THE HARRY S. HOPPER PRIZE.

Mr. Harry S. Hopper, of Philadelphia, Chairman of the Board of Trustees, offers an annual prize of ten dollars for excellence in Composition.

This prize for 1893 was awarded to Vincent Barrett Fisk.

### THE REV. D. P. LEAS PRIZE.

Rev. David P. Leas, of Philadelphia, Treasurer of Bucknell University, offers an annual prize of ten dollars to that member of the Third Form who shall excel in the Annual Exhibition of the Third Form in Declamation.

This prize in 1893 was awarded to Elwood Herbert Dutton.

### THE PRINCIPAL WILLIAM E. MARTIN PRIZE.

Principal William E. Martin offers an annual prize of ten dollars to that member of the Fourth Form who shall pronounce the best oration at the Academic Graduating Exhibition.

This prize for 1893 was awarded to Vincent Barrett Fisk.

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## LITERARY SOCIETIES.

***Hermenia; Adelpia.***—These are voluntary organizations of students for mutual improvement in Literary and Oratorical exercises. They have large and convenient halls in the Academy building, where they hold their meetings on Friday evenings.

RELIGIOUS SERVICES.

The duties of each day are opened with devotional exercises in Bucknell Hall, at which all students are required to be present.

Regular attendance upon public worship at some Church in town on Sunday morning is required ; also upon services on Thanksgiving Day, and the Day of Prayer for Colleges. Attendance upon Sunday schools and mid-week prayer-meetings, while voluntary, is strongly urged upon students.

The Academic students maintain a branch of the Young Men's Christian Association, which holds a weekly prayer-meeting on Tuesday evenings.

EXPENSES.

	<i>Per Annum.</i>
Tuition, Board, Furnished Rooms, Fuel, Lights, Care, Washing and Incidentals, - - - - -	\$225 00
Tuition, Board, Unfurnished Rooms, Fuel, Washing and Incidentals, - - - - -	180 00
Tuition, Fuel and Incidentals to Day Pupils, - - - - -	50 00

All charges are payable to the Registrar of the University in advance, at the beginning of each term, or by the 15th of September, January and April.

No student is entitled to his place in his class until he has made settlement for the term bills.

If a student occupy a study by himself, the charges for room-rent and private fuel will be doubled.

Free scholarships covering tuition are provided in all the Departments of the University for the children of Ministers of the Gospel *in actual service*.

The expenses for Music and Printing for Exhibitions and Anniversary occasions are paid by the classes for which such expenses are incurred.

*For information respecting the Academy, address the President of the University, John H. Harris, Ph. D., LL. D., or the Principal, William E. Martin, A. M.*





## THE INSTITUTE.

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### INSTRUCTORS AND OTHER OFFICERS.

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JOHN HOWARD HARRIS, PH. D., LL. D.,

PRESIDENT OF THE UNIVERSITY, AND INSTRUCTOR IN PSYCHOLOGY AND ETHICS.

MRS. KATHERINE B. LARISON, A. M., PRINCIPAL,

AND INSTRUCTOR IN LITERATURE.

FRANCES MARY RUSH, A. M.,

ENGLISH AND MATHEMATICS.

ELYSÉE AVIRAGNET, A. M., MUS. DOC.,

VOCAL AND INSTRUMENTAL MUSIC AND THE ROMANCE LANGUAGES.

CANDACE WOOD,

DRAWING AND PAINTING.

HARRIET CLARE ARMITAGE,

ENGLISH, ELOCUTION AND GYMNASTICS.

JULIET AIKEN,

INSTRUMENTAL MUSIC.

ELIZABETH COLLINS EDDELMAN, B. S.,

GERMAN.

MARY BUNNELL MORGAN,

VOCAL MUSIC.

ALBERT BURNS STEWART, A. M.,

MATHEMATICS.

GEORGE ELMER FISHER, PH. B.,

SCIENCE.

LLEWELLYN PHILLIPS, A. B.,

GREEK.

EPHRAIM M. HEIM, A. B.,

LATIN.

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WILLIAM CHRISTIAN GRETZINGER, PH. B.,

REGISTRAR OF THE UNIVERSITY.

ELIAS REYNOLDS,

CARE OF INSTITUTE GROUNDS AND BUILDINGS.

MRS. ELIAS REYNOLDS,

MATRON.

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## DIRECTORY OF THE ALUMNÆ.

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### OFFICERS OF THE GENERAL ALUMNÆ.

*President*, MISS ANNIE EVANS.

*Vice-President*, MRS. T. H. PURDY.

*Recording Secretary*, MISS A. E. VAN GUNDY.

*Corresponding Secretary*, MRS. J. R. LOOMIS, Lewisburg, Pa.

*Treasurer*, MRS. D. B. MILLER.

*Board of Managers.*

THE OFFICERS OF THE ASSOCIATION, AND MRS. KATHERINE B. LARISON AND  
MRS. W. C. WALLS.

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### OFFICERS OF THE LEWISBURG ALUMNÆ CLUB.

*President*, MRS. S. D. BATES.

*Vice-President*, MRS. J. C. BUCHER.

*Secretary*, MISS ANNIE EVANS.

*Treasurer*, MISS FLORENCE A. VAN DYKE.

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### OFFICERS OF THE PHILADELPHIA ALUMNÆ CLUB.

*President*, MRS. O. W. SPRATT.

*Vice-President*, MRS. M. P. TUSTIN.

*Recording Secretary*, MISS JESSIE JONES.

*Corresponding Secretary*, MISS S. A. REED, 2025 Brandywine Street,  
Philadelphia, Pa.

*Treasurer*, MRS. E. L. WAKELIN.

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The Principal of the Institute will esteem it a favor if any graduate who changes her residence will give notice of her new address. She will also be grateful for any information that will assist in making or keeping the directory of the graduates complete, or serve for future editions of the triennial catalogue.



## STUDENTS.

### GRADUATE STUDENTS.

NAME.	RESIDENCE.	ROOM.
MARY EMMA BUTLER,	<i>Lewisburg.</i>	Mr. John W. Butler.
HATTIE LAURA WALTER,	<i>Lewisburg.</i>	Mr. C. F. Walter.

### THE SENIOR YEAR.

NAME.	RESIDENCE.	ROOM.
ELIZABETH TOWER BATES,	<i>Lewisburg.</i>	Hon. S. D. Bates.
MARY BELL,	<i>Sabbath Rest.</i>	Institute.
MABELLE CLARE CALLENDER,	<i>Olyphant.</i>	Institute.
VIDA SMITH DAVENPORT,	<i>Pittston.</i>	Institute.
EVA CATHERINE DAVISON,	<i>Union Corner.</i>	Institute.
NORA MAY GREENE,	<i>Saltillo.</i>	Institute.
IDA GERTRUDE GREENE,	<i>Saltillo.</i>	Institute.
CORA MAY JOHNSON,	<i>Lewisburg.</i>	Prof. B. R. Johnson.
HARRIET IRENE LEWIS,	<i>Lewisburg.</i>	Mrs. Thomas S. Lewis.

ALICE JUNE LILLIBRIDGE,	<i>Olyphant.</i>	Institute.
ALICE GERTRUDE PROBASCO,	<i>Bridgeton, N. J.</i>	Institute.
ELLA MAY REESE,	<i>Fair View Village.</i>	Institute.
ANNA GERTRUDE SIEBER,	<i>Lewisburg.</i>	Rev. L. L. Sieber.
EMMA VIOLA STARICK,	<i>Lewisburg.</i>	Mrs. B. Gibson.
LULU BLANCHE SWENGEL,	<i>Lewisburg.</i>	Mr. E. Swengel.
MABEL WOLFE THOMAS,	<i>Lewisburg.</i>	Mr. W. P. Thomas.
ELIZABETH BLANCHE VASTINE,	<i>Riverside.</i>	Institute.
MABEL EDNA WITTENMYER,	<i>Middleburg.</i>	Institute.

### THE FOURTH YEAR.

NAME.	RESIDENCE.	ROOM.
FRANCES MOORE BAKER,	<i>Lewisburg.</i>	J. T. Baker, Esq.
MARY HOWARD BAKER,	<i>Lewisburg.</i>	J. T. Baker, Esq.
BESSIE ESTELLE BRUBAKER,	<i>Mifflinburg.</i>	Institute.
MARY EVANS CHAMBERS,	<i>West Chester.</i>	Mrs. F. R. Dutton.
JENNIE ARAMINTA DAVIS,	<i>Camden, N. J.</i>	Institute.
IRENE CARRIE ELLIS,	<i>Jersey Shore.</i>	Rev. J. R. Merriman.
LAURA FAGUE,	<i>Hughesville.</i>	Institute.
EMMA BEULAH HAYES,	<i>Lewisburg.</i>	Hon. Alfred Hayes.
STELLA REBECCA HOUGHTON,	<i>Lewisburg.</i>	Mr. J. W. Houghton.
MARY MATLACK,	<i>Lewisburg.</i>	Mrs. Emma J. Matlack.



MARGARET ISABELLE NORTON,	<i>Lewisburg.</i>	Mr. Thomas G. Norton.
ANNA MAY RODGERS,	<i>Allentown.</i>	Mrs. F. R. Dutton.
CLARISSA FISHER RUSSELL,	<i>Lewisburg.</i>	Mr. T. Frank Russell.
EDITH ELIZABETH SCHAFFER,	<i>Derry Church.</i>	Institute.
FLORA ANN SIGEL,	<i>Watsonstown.</i>	Institute.
GRACE SLIFER,	<i>Lewisburg.</i>	Mrs. C. V. Slifer.
MARY ALICE THORNTON,	<i>Lewisburg.</i>	Dr. T. C. Thornton.
EMILY LOUISE WILLIAMS,	<i>Peckville.</i>	Mr. John Sprague.
MARY ELIZABETH WILSON,	<i>Lewisburg.</i>	Mr. Thomas Wilson.

### THE THIRD YEAR.

NAME.	RESIDENCE.	ROOM.
LAURA LOUISA ALLEN,	<i>Coudersport.</i>	Mrs. C. V. Slifer.
BELLE BARTOL,	<i>Lewisburg.</i>	Prof. W. C. Bartol.
MIRIAM ADLUM BUCHER,	<i>Lewisburg.</i>	Hon. J. C. Bucher.
FANNIE MARGARET CASE,	<i>Lewisburg.</i>	Mr. Charles R. Case.
ESTHER MCKINSTRY GREENE,	<i>Saltillo.</i>	Institute.
AUGUSTA JOSEPHINE HANNA,	<i>Lock Haven.</i>	Institute.
ELEANOR GEORGEANNA LAURY,	<i>Weissport.</i>	Institute.
SARAH LILLIBRIDGE,	<i>Olyphant.</i>	Institute.
MARY ELIZABETH MOORHEAD,	<i>Lewisburg.</i>	Rev. I. N. Moorhead.

RACHEL JANE NOLL,		Institute.
	<i>Lewisburg.</i>	
ELIZABETH JOSEPHINE NOYES,		Institute.
	<i>Westport.</i>	
ELEANOR SHAMP,		Mr. J. W. C. Shamp.
	<i>Lewisburg.</i>	
SUSAN RODENBAUGH SLIFER,		Mr. Geo. M. Slifer.
	<i>Winfield.</i>	
ALICE SNOWDEN,		Institute.
	<i>Hughesville.</i>	
FLORENCE VIRGINIA STONER,		Institute.
	<i>Sunbury.</i>	
BERTHA CELESTINE WATKINS,		Rev. W. G. Watkins.
	<i>Lewisburg.</i>	
MARY OLIVE WILLIAMSON,		Mrs. Elizabeth Pross.
	<i>Salladasburg.</i>	

## THE SECOND YEAR.

NAME.	RESIDENCE.	ROOM.
HENRIETTA ALLEN,		Mr. H. P. Allen.
	<i>Allenwood.</i>	
LOUISE HENRIETTA ATHA,		Institute.
	<i>Newark, N. J.</i>	
MABEL EFFIE BATTEN,		Institute.
	<i>Auburn, N. J.</i>	
SARAH MARTHA BLACK,		Mrs. Annie M. Black.
	<i>Lewisburg.</i>	
RUTH NORA DAVIS,		Rev. L. C. Davis.
	<i>Lewisburg.</i>	
ANNA CURZON JUDD,		Rev. J. T. Judd.
	<i>Lewisburg.</i>	
MARY ANNA KLINE,		Mr. George M. Kline.
	<i>Winfield.</i>	
EMMA ELIZABETH KUNKLE,		Prof. W. G. Owens.
	<i>Newberry.</i>	
EMMA MADDEN,		Institute.
	<i>Saltillo.</i>	
ELIZA JOHNSTON MARTIN,		Prin. W. E. Martin.
	<i>Lewisburg.</i>	



FRANCES WHITE McFADDIN,	Mr. T. G. Evans.
<i>Long Branch, N. J.</i>	
ANNA RUBETTA MOORHEAD,	Rev. I. N. Moorhead.
<i>Lewisburg.</i>	
MINNIE CATHERINE MORRIS,	Institute.
<i>Philadelphia.</i>	
EMMA DIRUF SEILER,	Mrs. Carl Seiler.
<i>Lewisburg.</i>	
EDNA SCHUYLER SHIRES,	Institute.
<i>Limestoneville.</i>	
JENNIE ADELPHINE SIMPSON,	Institute.
<i>Clifford.</i>	
MARY ELIZABETH STRICKLAND,	Mr. James H. Strickland.
<i>Winfield.</i>	
MABEL WELLS,	Institute.
<i>Wilcox.</i>	
MABELLE ADA WILLIAMS,	Institute.
<i>Ridgway.</i>	
FLORENCE ELIZABETH WINTER,	Institute.
<i>Hamilton, N. Y.</i>	

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### THE FIRST YEAR.

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NAME.	RESIDENCE.	ROOM.
HATTIE VERNAND HAMILTON,		Institute.
	<i>Ridgway.</i>	
EDITH AGNES HARTLEY,		Rev. Wm. Hartley.
	<i>Guelph, Ont.</i>	
SARAH ETHEL JUDD,		Rev. J. T. Judd.
	<i>Lewisburg.</i>	

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### PURSUING SELECT STUDIES.

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NAME.	RESIDENCE.	ROOM.
LILY ASHBY DUNGAN,		Institute.
	<i>Philadelphia.</i>	
GERTRUDE JONES,		Mr. Wm. Jones.
	<i>Lewisburg.</i>	

MARY LARISON,	<i>Ringoes, N. J.</i>	Institute.
ANNA FLORENCE McCLOSKEY,	<i>Buffalo, N. Y.</i>	Institute.
BIRDIE FRANCES MCHENRY,	<i>Exchange.</i>	Institute.
ALICE LYON MENCH,	<i>Mifflinburg.</i>	Institute.
MARY NETA MOYER,	<i>Shickshinny.</i>	Institute.
MARGARET OLIVIA ROSS,	<i>Mifflinburg.</i>	Rev. M. L. Ross.
HARRIET SEELEY SAYRE,	<i>Williamsport.</i>	Institute.
EFFIE MAY SHAEFFER,	<i>Fleetwood.</i>	Institute.
CAROLINE FONDA SLOCUM,	<i>Milton.</i>	Col. H. A. Fonda.
ELIZABETH WILHELMINA SPETTIGUE,	<i>Wilcox.</i>	Institute.
NELLIE GRACE SUITER,	<i>Lock Haven.</i>	Institute.
MINNIE VISICK,	<i>Strong.</i>	Institute.
MARY VORIS,	<i>Lewisburg.</i>	Town.
ELIZABETH COOK WALKER,	<i>Elkland.</i>	Institute.

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## SUMMARY.

Graduate Students.....	2
Seniors ... ..	18
Fourth Year.....	19
Third Year.....	17
Second Year.....	20
First Year.....	3
Special....	16
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Total. ....	95



## THE SCHOOL OF MUSIC.

### PIANO.

NAME.	RESIDENCE.
LOUISE HENRIETTA ATHA.....	Newark, N. J.
ELLA BENDER.....	Lewisburg.
MIRIAM ADLUM BUCHER.....	Lewisburg.
LENA BURKE.....	Northumberland.
FANNIE MARGARET CASE.....	Lewisburg.
MARY COTTON.....	Lewisburg.
MARY ELIZABETH DARLINGTON.....	Lewisburg.
VIDA SMITH DAVENPORT.....	Pittston.
EVA JANE DERR.....	Limestoneville.
LAURA FAGUE. ....	Hughesville.
EMMA FAUST.....	Watsonstown.
ESTHER MCKINSTRY GREENE .....	Saltillo.
WILLIAM GREINER. ....	Mausdale.
EMMA BEULAH HAYES.....	Lewisburg.
NANIE HAUPT.....	Hartleton.
MINNIE HAUPT.....	Hartleton.
JEANIE HIMMELREICH.....	Lewisburg.
ELIZABETH KELLY.....	Lewisburg.
MARY LARISON.....	Ringoos, N. J.
JOSEPHINE LAWSHE.....	Lewisburg.
ELEANOR GEORGEANNA LAURY.....	Weissport.
MARIE LEISER .....	Lewisburg.
JAMES BROWN MARTIN.....	Lewisburg.
MARY MATLACK.....	Lewisburg.
ANNA FLORENCE McCLOSKEY.....	Buffalo, N. Y.
FRANCES WHITE McFADDIN.. ....	Long Branch, N. J.
ALICE LYON MENCH.....	Mifflinburg.
MARY NETA MOYER.....	Shickshinny.
ELLA MAY REESE.....	Fairview Village.
CLARISSA FISHER RUSSELL... ..	Lewisburg.

NAME.	RESIDENCE.
EFFIE MAY SHAEFFER.....	Fleetwood.
HARRIET SEELEY SAYRE.....	Williamsport.
NELLIE GRACE SUITER.....	Lock Haven.
ALICE SNOWDEN.....	Hughesville.
CAROL STICKER.....	Milton.
LULU BLANCHE SWENGEL.....	Lewisburg.
MARY ALICE THORNTON.....	Lewisburg.
MINNIE VISICK.....	Mt. Carmel.
ELIZABETH BLANCHE VASTINE.....	Danville.
BERTHA CELESTINE WATKINS.....	Lewisburg.
ELIZABETH COOK WALKER.....	Elkland.
LIZZIE WATERS.....	East Lewisburg.
MAUD WOLFE.....	Lewisburg.

### ORGAN.

NAME.	RESIDENCE.
EDMUND BAKER.....	Dubois.
BERTHA FOLLMER.....	Milton.
BERTRAND HILLER GIFFIN.....	Jamestown, N. Y.
MINNIE VISICK.....	Mt. Carmel.
ELIZABETH COOK WALKER.....	Elkland.

### VOICE CULTURE.

NAME.	RESIDENCE.
MARGARET STUART BAKER.....	Lewisburg.
WILLARD MAINE BUNNELL.....	Montrose.
FANNIE MARGARET CASE.....	Lewisburg.
MINNIE COTTON.....	Lewisburg.
ROBERT BAILEY DAVIDSON.....	Paterson, N. J.
JENNIE ARAMINTA DAVIS..	Camden, N. J.



## NAME.

## RESIDENCE.

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ELWOOD HERBERT DUTTON.....	West Chester.
EMMA FAUST.....	Watson town.
BERTHA FOLLMER.....	Milton.
BERTRAND HILLER GIFFIN.....	Jamestown, N. Y.
ESTHER MCKINSTRY GREENE.....	Saltillo.
EMMA ELIZABETH KUNKLE.....	Newberry.
MARY LARISON.....	Ringo es, N. J.
MARY MATLACK.....	Lewisburg.
JAMES DEMOREST MACNAB..	Brooklyn, N. Y.
ANNA FLORENCE MCCLOSKEY.....	Renovo.
ALICE LYON MENCH.....	Mifflinburg.
CLARISSA FISHER RUSSELL.....	Lewisburg.
EFFIE MAY SHAEFFER.....	Fleetwood.
EMILY LOUISE WILLIAMS.....	Pecksville.
MABEL EDNA WITTENMEYER.....	Middleburg.

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## HARMONY.

## NAME.

## RESIDENCE.

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EZRA ALLEN.....	Coudersport.
EDMUND BAKER.....	Dubois.
ADDISON BARTHOLOMEW BOWSER.....	Danville.
LENA BURKE.....	Northumberland.
VIDA SMITH DAVENPORT.....	Pittston.
EMMA FAUST.....	Watson town.
MARY MATLACK.....	Lewisburg.
ALICE LYON MENCH.....	Mifflinburg.
MARY NETA MOYER.....	Milton.
EFFIE MAY SHAEFFER.....	Fleetwood.
HATTIE SEELEY SAYRE.....	Williamsport.
NELLIE GRACE SUITER.....	Lock Haven.
LULU BLANCHE SWENGEL.....	Lewisburg.
MINNIE VISICK.....	Mt. Carmel.
ELIZABETH COOK WALKER.....	Elkland.

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## VIOLIN.

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NAME.	RESIDENCE.
ELLA BENDER.....	Lewisburg.
GEORGE BOWERS.....	Chester.
MARY REBECCA EDDELMAN.....	Greensburg, Ind.
BERTHA FOLLMER.....	Milton.
LOUISE LAWSHE.....	Lewisburg.
JAMES BROWN MARTIN.....	Lewisburg.
FRANCES WHITE MCFADDIN.....	Long Branch, N. J.
MARY NETA MOYER.....	Shickshinny.
EDNA SCHUYLER SHIRES.....	Limestoneville.
FRANKLIN ISAAC SIGMUND.....	Philadelphia.
CAROL STICKER....	Milton.
ALICE SNOWDEN .....	Hughesville.
MINNIE VISICK.....	Mt. Carmel.
LOTTIE MAY WALTER.....	Lewisburg.
FRANK WATSON.....	Northumberland.

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## VIOLA.

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NAME.	RESIDENCE.
ANDREW FREEMAN ANDERSON.....	Lewisburg.

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## CELLO.

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NAME.	RESIDENCE.
THOMAS STRADLING FRETZ.....	Gardenville.
JENNIE SIMPSON.....	Clifford.
NELLIE TAYLOR.....	Factoryville.

## DOUBLE BASS.

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NAME.	RESIDENCE.
<hr/>	
EZRA ALLEN.....	Coudersport.
JOSEPHINE LAWSHE.....	Lewisburg.
BERTHA CELESTINE WATKINS.....	Lewisburg.

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## CORNET AND HORN.

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NAME.	RESIDENCE.
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BENJAMIN KANE BRICK.....	Marlton, N. J.
HARRY S. BOURN.....	Danville.
WILLARD MAINE BUNNELL.....	Montrose.
EVERETT ADAMS BUSH.....	Panama, N. Y.
JOSEPH CALDWELL CAREY.....	Glen Loch.
PETER BODINE CREGAR.....	Aurandale, N. J.
ROBERT BAILEY DAVIDSON.....	Paterson, N. J.
ALBERT EDWARD FINN.....	Philadelphia.
HERBERT FREDERICK HARRIS.....	Lewisburg.
FRANK WATTERSON JACKSON.....	Ohio pyle.
JAMES DEMOREST MACNAB.....	Brooklyn, N. Y.
WARREN STANLEY MARTS.....	Dividing Creek, N. J.
ERVIN RUSSELL POWELL.....	North Sewickley.
FREDERICK OTTO SCHUB.....	Pittsburg.
FRANK MORTON SIMPSON.....	Clifford.
CHARLES WESLEY WILLIAMS.....	Philadelphia.
AMOS THOMAS WILLIAMS.....	Ridgway.
ALBERT HARNISH WYNKOOP.....	Philadelphia.



## SUMMARY.

Piano.....	43
Organ.....	5
Voice Culture.....	21
Harmony.....	15
Violin.....	15
Viola.....	1
'Cello.....	3
Double Bass.....	3
Cornet and Horn.....	18
Total.....	124
Names repeated.....	37
	<hr/> 87

## THE SCHOOL OF ART.

NAME.	RESIDENCE.
HARRIET CLARE ARMITAGE.....	Elmira.
EDWARD BELL.....	Sabbath Rest.
ELIZA BELL.....	Sabbath Rest.
MARY BELL.....	Sabbath Rest.
RICHARD BELL.....	Sabbath Rest.
WILHELMINA DARLINGTON.....	Lewisburg.
EVA JANE DERR.....	Limestoneville.
SYBIL WATSON DAUGHERTY.....	Sunbury.
ELIZABETH COLLINS EDDELMAN.....	Greensburg, Ind.
ANNIE EVANS.....	Lewisburg.
IDA GERTRUDE GREENE.....	Saltillo.
McKAY HALFPENNY.....	Milton.
ELLA HOLT HASSENPLUG.....	Mifflinburg.
KATHARINE HAZLEWOOD..	Lewisburg.
CORA KASE.....	Danville.
ANNA JULIA KEISER.....	Lewisburg.
MARY LARISON.....	Ringoes, N. J.
ALICE JUNE LILLIBRIDGE.....	Olyphant.
SARAH LILLIBRIDGE.....	Olyphant.
WINFRED LYMAN.....	Austin.
FANNIE MARSH.....	Lewisburg.
FANNIE McLAUGHLIN.....	Lewisburg.
BIRDIE FRANCES McHENRY.....	Exchange.
MARY ELIZABETH MOORHEAD.....	Lewisburg.
ALICE GERTRUDE PROBASCO.....	Bridgeton, N. J.
CLEMENCE PROCTOR REID.....	Milton.
MARGARET OLIVIA ROSS.....	Mifflinburg.
FRANCES MARY RUSH.....	Lewisburg.
EMMA DIRUF SEILER.....	Lewisburg.
FLORENCE SMITH.....	Lewisburg.
ELIZABETH BLANCHE VASTINE.....	Riverside.
MABEL WELLS.....	Wilcox.
FLORA ELIZABETH WINTER.....	Hamilton, N. Y.

PRIVATE LESSONS IN ELOCUTION.

NAME.	RESIDENCE.
ELIZA BELL.. .....	Sabbath Rest.
ELLA HOLT HASSENPLUG.....	Mifflinburg.
MARGARET WAGNER.....	Lewisburg.

GENERAL SUMMARY.

Institute Courses.....	95
School of Music.....	87
School of Art.....	33
Elocution (Special).....	3
<hr/>	
(Names not repeated).....	35
<hr/>	
Total.....	130
Other Departments.....	223
<hr/>	
Total in all Departments.. ..	353





## COURSES OF STUDY.

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*The Bucknell Institute* offers to young women three courses of study, each extending over five years. Students are admitted to advanced standing, if, upon examination, they are found to have satisfactory knowledge of the branches which the class they propose to enter has already completed.

### I. THE LITERARY COURSE.

*The Literary Course* embraces, in MATHEMATICS, Arithmetic, common and advanced, Algebra and Geometry, plane and solid ; in LATIN, two years *required*, and a third year elective with German or French ; in GERMAN and FRENCH, one year each or two of either ; and in ITALIAN and SPANISH, an optional course under the instruction of M. Elysée Aviragnet ; in SCIENCE, Physical Geography, Botany, Astronomy, Physics, Physiology, Chemistry and Geology. In these branches the students have the advantages afforded by the College Observatory, Laboratory and Museum. The course also includes Rhetoric, Composition, Civil Government, Psychology and Ethics.

Special attention is given to History and Literature, to the former of which six, and to the latter three, terms are devoted.

### II. THE CLASSICAL COURSE.

*The Classical Course* embraces, in MATHEMATICS, Arithmetic, Algebra, Geometry, plane and solid, University Algebra, Trigonometry and Analytical Geometry ; in LATIN, Grammar and Composition, Cæsar, Vergil, Cicero's Orations, Cicero de Senectute et de Amicitia, Livy and Tacitus, in all, four years ; in GREEK, Grammar and Composition, Xenophon's Anabasis, Homer's Iliad, Lysias' Orations, Herodotus, Homer's Odyssey, and the Greek Testament, in all, three years ; in HISTORY, General History, and Greek and Roman History.

Students who complete the Classical Course are admitted to the Sophomore Class in College as candidates for the first degree in Arts.

### III. THE LATIN SCIENTIFIC COURSE.

*The Latin Scientific Course* corresponds to the Classical Course, except that scientific studies are substituted for the first two years of Greek, and German for the third year of Greek.

Students who complete the Latin Scientific Course are admitted to the Sophomore Class in College as candidates for the first degree in Philosophy.

### IV. THE ECLECTIC COURSE.

*The Eclectic Course.*—For those who do not intend to pursue a Regular Course of Study, but desire to select certain special branches, the Institute will, subject to necessary restrictions, provide such studies as they may elect and for which they show themselves qualified, but only in connection with the recitations of the regular classes.

## CURRICULA.\*

### I. THE LITERARY COURSE.

#### FIRST YEAR.

- |   |  |
|---|--|
| I. TERM—Arithmetic,<br>United States History,<br>English Grammar, | Wentworth,<br>Barnes,<br>Outlines and Exercises. |
| II. TERM—Arithmetic,<br>General History,<br>English Grammar,      | Wentworth,<br>Barnes,<br>Outlines and Exercises. |
| III. TERM—Arithmetic,<br>General History,<br>English Grammar,     | Wentworth,<br>Barnes,<br>Whitney's Essentials.   |

#### SECOND YEAR.

- |  |   |
|--|---|
| I. TERM—Latin—Lessons,<br>Grammar,<br>Rhetoric,<br>Higher Arithmetic,      | Tetlow,<br>Allen and Greenough,<br>Hill's Elements,<br>Wentworth. |
| II. TERM—Latin—Lessons,<br>Grammar,<br>History of Greece,<br>Book-Keeping, | Tetlow,<br>Allen and Greenough,<br>Myers,<br>Bryant.              |
| III. TERM—Cæsar,<br>Physical Geography,<br>Botany,<br>History of Rome,     | Harper and Tolman,<br>Appleton,<br>Gray,<br>Myers.                |

#### THIRD YEAR.

- |   |  |
|---|--|
| I. TERM—Cæsar,<br>Natural Philosophy,<br>English History, | Harper and Tolman,<br>Sharpless and Philips,<br>Guest.   |
| II. TERM—Vergil,<br>Algebra,<br>Astronomy,                | Harper and Miller,<br>Sheldon,<br>Sharpless and Philips. |
| III. TERM—Vergil,<br>Algebra,<br>Civil Government,        | Harper and Miller,<br>Sheldon,<br>Cocker.                |

#### \* REQUIREMENTS FOR ADMISSION.

Credentials from Graded Schools accepted in the studies of the First and Second Years.  
 Credentials accepted for the Third, Fourth and Senior Years from schools whose curricula are equivalent to that of Bucknell Institute; also from accredited private teachers, in studies which are *continued* after entrance.

No pupil under 12 years of age will be received for admission.

**FOURTH YEAR.**

- |   |  |
|---|--|
| I. TERM—Vergil, <i>or</i><br>German,<br>Algebra, Quadratics,<br>Physiology,                             | Harper and Miller,<br>Joynes-Meissner,<br>Sheldon,<br>Walker.                  |
| II. TERM—Cicero, <i>and</i><br>Latin Prose Composition, <i>or</i><br>German,<br>Geometry,<br>Chemistry, | Allen and Greenough,<br>Daniell,<br>Joynes-Meissner,<br>Wentworth,<br>Remsen.  |
| III. TERM—Cicero, <i>or</i><br>German, <i>and</i><br>German Composition,<br>Geometry,<br>Geology,       | Allen and Greenough,<br>Joynes-Meissner,<br>Harris,<br>Wentworth,<br>Le Conte. |

**SENIOR YEAR.**

- |  |  |
|--|--|
| I. TERM—Psychology,<br>English Literature,<br>English Classics,<br>French, <i>or</i><br>German,      | Hopkins,<br>Outlines, and Pancoast,<br><br>Die Jungfrau von Orleans.<br>Outlines, and Pancoast,<br><br>Wentworth,<br><br>Wilhelm Tell. |
| II. TERM—English Literature,<br>English Classics,<br>Solid Geometry,<br>French, <i>or</i><br>German, | Hopkins,<br>Outlines,<br><br>Hermann und Dorothea.   |
| III. TERM—Ethics,<br>American Literature,<br>American Classics,<br>French, <i>or</i><br>German,      |  |

**II. THE CLASSICAL COURSE.****FIRST YEAR.**

- |   |  |
|---|--|
| I. TERM—Arithmetic,<br>United States History,<br>English Grammar, | Wentworth,<br>Barnes,<br>Outlines and Exercises. |
| II. TERM—Arithmetic,<br>General History,<br>English Grammar,      | Wentworth,<br>Barnes,<br>Outlines and Exercises. |
| III. TERM—Arithmetic,<br>General History,<br>English Grammar,     | Wentworth,<br>Barnes,<br>Whitney's Essentials.   |



**SECOND YEAR.**

- |  |   |
|--|---|
| I. TERM—Latin—Lessons,<br>Grammar,<br>Rhetoric,<br>Higher Arithmetic,                            | Tetlow,<br>Allen and Greenough,<br>Hill's Elements,<br>Wentworth. |
| II. TERM—Latin—Lessons,<br>Grammar,<br>History of Greece,<br>Book-Keeping,                       | Tetlow,<br>Allen and Greenough,<br>Myers,<br>Bryant.              |
| III. TERM—Cæsar's Commentaries,<br>Physical Geography,<br>Elementary Botany,<br>History of Rome, | Harper and Tolman,<br>Appleton,<br>Gray,<br>Myers.                |

**THIRD YEAR.**

- |  |  |
|--|--|
| I. TERM—Natural Philosophy,<br>Cæsar's Commentaries,<br>Greek—Lessons,<br>Grammar, | Sharpless and Philips,<br>Harper and Tolman,<br>White,<br>Goodwin. |
| II. TERM—Algebra,<br>Vergil's Æneid,<br>Greek—Lessons,<br>Grammar,                 | Sheldon,<br>Harper and Miller,<br>White,<br>Goodwin.               |
| III. TERM—Algebra,<br>Vergil's Æneid,<br>Xenophon's Anabasis,                      | Sheldon,<br>Harper and Miller,<br>Kelsey.                          |

**FOURTH YEAR.**

- |   |   |
|---|---|
| I. TERM—Algebra, Quadratics.<br>Latin—Vergil's Æneid,<br>Prosody,<br>Xenophon's Anabasis,     | Sheldon,<br>Harper and Miller,<br>Harper and Miller,<br>Kelsey. |
| II. TERM—Plane Geometry,<br>Latin—Cicero's Orations,<br>Prose Composition,<br>Homer's Iliad.  | Wentworth,<br>Allen and Greenough,<br>Daniell,<br>Seymour.      |
| III. TERM—Plane Geometry,<br>Cicero's Orations,<br>Greek—Homer's Iliad,<br>Prose Composition, | Wentworth,<br>Allen and Greenough,<br>Seymour,<br>Woodruff.     |

**SENIOR YEAR.**

- |  |   |
|--|---|
| I. TERM—Geometry,<br>Algebra,<br>Cicero de Senectute et de Am.,<br>Lysias' Orations,<br>Greek Prose Composition, | Practical Ethics,<br>Hygiene,<br>Elocution,<br>English Composition,<br>Lectures on the Essay. |
|--|---|

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|--|--|
| II. TERM—Trigonometry, <sup>a</sup><br>Algebra,<br>Livy,<br>Herodotus or Thucydides, | Greek Testament,<br>Derivatives,<br>Elocution,<br>English Composition. |
| III. TERM—Analytical Geometry,<br>Tacitus,<br>Odyssey,<br>Greek Testament,           | Chemistry,<br>Elocution,<br>English Composition.                       |
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### III. THE LATIN SCIENTIFIC COURSE.

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#### FIRST YEAR.

- |   |  |
|---|--|
| I. TERM—Arithmetic,<br>United States History,<br>English Grammar, | Wentworth,<br>Barnes,<br>Outlines and Exercises. |
| II. TERM—Arithmetic,<br>General History,<br>English Grammar,      | Wentworth,<br>Barnes,<br>Outlines and Exercises. |
| III. TERM—Arithmetic,<br>General History,<br>English Grammar,     | Wentworth,<br>Barnes,<br>Whitney's Essentials.   |

#### SECOND YEAR.

- |   |   |
|---|---|
| I. TERM—Latin—Lessons,<br>Grammar,<br>Rhetoric,<br>Higher Arithmetic,             | Tetlow,<br>Allen and Greenough,<br>Hill's Elements,<br>Wentworth. |
| II. TERM—Latin—Lessons,<br>Grammar,<br>History of Greece,<br>Book-Keeping,        | Tetlow,<br>Allen and Greenough,<br>Myers,<br>Bryant.              |
| III. TERM—Cæsar,<br>Physical Geography,<br>Elementary Botany,<br>History of Rome, | Harper and Tolman,<br>Appleton,<br>Gray,<br>Myers.                |

#### THIRD YEAR.

- |  |  |
|--|--|
| I. TERM—Cæsar's Commentaries,<br>Natural Philosophy,<br>English History, | Harper and Tolman,<br>Sharpless and Philips,<br>Guest.   |
| II. TERM—Algebra,<br>Vergil's Æneid,<br>Astronomy,                       | Sheldon,<br>Harper and Miller,<br>Sharpless and Philips. |

- |  |   |
|--|---|
| III. TERM—Algebra,<br>Vergil's <i>Æneid</i> ,<br>Civil Government, | Sheldon,<br>Harper and Miller,<br>Cocker. |
|--|---|

**FOURTH YEAR.**

- |   |   |
|---|---|
| I. TERM—Algebra, Quadratics,<br>Latin—Vergil's <i>Æneid</i> ,<br>Prosody,<br>Physiology,          | Sheldon,<br>Harper and Miller,<br>Allen and Greenough,<br>Walker.         |
| II. TERM—Plane Geometry,<br>Latin—Cicero's Orations,<br>Prose Composition,<br>English Literature, | Wentworth,<br>Allen and Greenough,<br>Daniell,<br>Outlines, and Pancoast. |
| III. TERM—Plane Geometry,<br>Cicero's Orations,<br>Geology,                                       | Wentworth,<br>Allen and Greenough,<br>Le Conte.                           |

**SENIOR YEAR.**

- |  |  |
|--|--|
| I. TERM—Geometry,<br>Algebra,<br>Cicero de Senectute et de Am.,<br>German, | Lectures on the Essays,<br>Practical Ethics,<br>Hygiene,<br>Elocution, |
| English Composition.   |  |
| II. TERM—Trigonometry,<br>Algebra,<br>German,                              | Derivatives,<br>Elocution,<br>English Composition,                     |
| Livy.  |  |
| III. TERM—Analytical Geometry,<br>Tacitus and Pliny,<br>German,            | Chemistry,<br>Elocution,<br>English Composition.                       |





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## METHODS OF INSTRUCTION.

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### I. PSYCHOLOGY AND ETHICS.

Psychology is taught by text-book and informal lectures. The relation of Psychology to education is made a special feature.

The aim in the course in Ethics is to make the instruction as practical as possible. Hopkins' work on Ethics is used as a text-book.

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### II. ENGLISH.

**English Grammar.**—The aim is to enable the pupils to speak and write the English language with accuracy and force. No text-book is used, the instruction being inductive.

**Rhetoric** is taught as a practical aid to English Composition. Daily exercises in the various processes of Composition are required.

**English Literature** is taught by topical outlines, the elaboration of which depends upon a critical study of the master-pieces in English Literature, in connection with the lives and times of the writers. The books required for this work are found in the Institute Library.

The chief object in the course is to imbue each student with an ardent desire *to know* and *to value* the best thoughts of the greatest minds; and to clearly comprehend the relation of these thoughts to English Literature and the English race.

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### III. HISTORY.

**History.**—Six terms are devoted to this study. The text-book is supplemented by the topical method. Efforts are made to convince the learner that History is not mere facts in chronological order, but a record of the development of civilization.

**Civil Government** is taught as a preparation for intelligent citizenship. The origin and growth of our institutions, the functions of the various departments of the National, State and local governments; the political history of the people; the interpretation and construction of the Constitution, are clearly presented and discussed.

#### IV. LATIN.

The method employed with beginners is the Inductive, the text of "Belium Helvetium" being used as presenting a model of perfect Latin. Paradigms of Declension and Conjugation, with the principles of Syntax, are introduced gradually, after many illustrations. The same text is made the basis of English sentences to be written in Latin, readiness in Latin Composition and a correct style being thus produced.

The following courses are offered :

1. Latin Grammar and Lessons, two terms.
2. Cæsar : Gallic War, two terms.
3. Vergil : *Æneid*, three terms.
4. Cicero : Orations, two terms.
5. Cicero : *De Senectute et de Am.*, one term.
6. Livy : Books XXI and XXII, one term.
7. Tacitus : *Germania* and *Agricola*, one term.

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#### V. THE GREEK LANGUAGE.

The first half year of the Third Year is spent in acquiring sufficient knowledge of forms and inflections to commence the study of Xenophon's *Anabasis*. During the last half year, special attention is given to the inflection and syntax of nouns, pronouns and adjectives. The reading of Xenophon is continued in the first term of the Fourth Year, and the forms and syntax of verbs made a special study. Homer is then read for one term and a half, and the difference between Homeric and Attic forms is noted. During the last half term Xenophon is reviewed, that the student may refresh his knowledge of Attic Greek, and may not find the transition to College needlessly difficult. Almost daily drill is given in turning into Greek, sentences based on the text of Xenophon.

The following courses in Greek are offered to students in the Classical Course :

1. Greek Lessons, two terms.
2. Xenophon : *Anabasis*, two terms.
3. Homer : *Iliad*, two terms.
4. Lysias : Orations, one term.
5. Herodotus : Selections, one term.
6. Homer : *Odyssey*, one term.
7. New Testament—Greek.

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#### VI. THE MODERN LANGUAGES.

**French, Italian and Spanish.**—The Modern Languages are taught by comparing them with the mother tongue of the pupil, if there be any relation

between them. If there is none, it is compared with the Latin and Greek Languages. In French, rules are taught by which the words that are not exactly the same in the two languages are easily made into French.

French Syntax is taught by examples and illustrations from readings. The grammar is taught from the language, and not the language from the grammar. Dictation exercises are given from "Whitney's Practical French."

As far as practical, French only is spoken in the class-room. Extracts are read from the best French Literature. Conversations are held in French on the readings, stories are related and compositions prepared in French by the pupil.

The aim is to teach the Modern Languages so that they can be spoken correctly.

The same method is used in teaching Spanish and Italian.

**German.**—In the study of German, the aim is to acquire a sufficient knowledge of the grammar and such a vocabulary as will conduce to facility in reading. As little English as practicable is used in the class-room, the rules, after frequent illustrations, being learned in the German Language. The committing to memory of poems, object lessons, and conversations on the text used, form the work of the first year; the reading of German Classics and German Compositions are included in the second year's course.

## VII. MATHEMATICS.

**Arithmetic.**—The subject is taught primarily with the object of making practical arithmeticians. The minds of the pupils are kept free from set rules, formulæ and mechanical processes, while independent thought and logical analyses are daily required.

**Algebra.**—Three terms are given to this subject. There is thorough drill in the fundamental operations, and the idea that these are simply the application of arithmetical processes to symbols of general value, is kept constantly in mind. The course includes Quadratic Equations, Theory of Exponents, Variation and Series.

**Geometry.**—The course includes Plane and Solid Geometry. Besides the demonstrations of theorems given in the text-book, original demonstrations and the solution of problems are required.

**Higher Algebra.**—Some time is given to the graphical representation of the relations of quantities. The topics discussed are: Progressions, Theory of Limits, Differentiation, Development of Functions into Series, Convergency and Summation of Series, Logarithms, Compound Interest and Annuities, Permutations and Combinations, Probability, Continued Fractions and the Theory of Equations. Differentiation is introduced as a means to clear and concise proofs of the Binomial Theorem, Logarithmic Series and Exponential Series.

**Trigonometry.**—The course includes Plane and Spherical Trigonometry. It is as extensive as that in our best schools, but does not include those discussions and investigations which are important for specialists only. Time is given to the numerical illustration of principles, for the purpose of making sure that the meaning and use of formulæ, demonstrated and learned, are thoroughly understood.



**Analytical Geometry.**—The student will be taken through the elementary properties of the right line and the conic sections. There will be, in addition, a brief discussion of the general equation of the second degree, some important higher plane curves, and loci in space. The course is intended to give a clear conception of the method of Cartesian Analysis, rather than extensive knowledge of its results.

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## VIII. SCIENCE.

**Natural Philosophy.**—The student is thoroughly grounded in the elements of mechanics and physics. The apparatus of the College Laboratory is available for use. The historical beginnings of each subject, and subsequent development, are sketched in brief lectures. No pains are spared to familiarize the pupil with the laws of these sciences, by instruction, experiment, review, and repeated examination. The truth of principles is proved, except where the demonstration involves the mathematics of the higher course in College.

**Astronomy.**—Descriptive Astronomy discusses the earth's relation to the solar system, the masses, motions and orbits of each member of it; the causes and consequences of at least five motions of the earth; general boundaries of the constellations of the Zodiac and Northern heavens; the accepted theories of comets, meteors and nebulae. Charts, star maps, globes and other apparatus are used, and the student is afforded privileges of observations in the College Observatory.

**Physical Geography** lays a broad foundation for subsequent work in all sciences. It surveys the earth's physiography, climate, atmosphere, fauna, flora, ocean tides and currents, and geological agencies. Special attention is given to the physical features of the United States. The text is illuminated by drawings, photographs, colored and relief maps, and specimens from the Museum.

**Geology.**—The student here masters the elements of lithographical, structural, dynamic and historical Geology. Specimens of various rocks and minerals are handled in class; their composition, characteristics and place in nature are explained; the structure of the earth in its present form is studied; the history of its evolution, the age and characteristics of its strata, the chief geological features of each continent, and the forces at work, and that have worked to produce change are considered.

**Botany** is taught by text-book, field exercise, plant analysis and weekly lectures. A brief outline is first obtained of plant structure, physiology, growth, and reproduction. The subject is then reviewed by daily drill in analyzing, recording, classifying and preserving specimens. The recorded analysis of fifty plants is required. Lectures explaining special forms of vegetable growth, the flora of this country, the cultivation, uses, and history of plants complete the work.

**Physiology.**—Every effort is made to impart clear ideas of the structure, parts and functions of the human body. Special attention is given to the chemistry of foods, the laws of health, the effects of stimulants and narcotics.

Suggestions are constantly made as to poisons and their antidotes, the care of the sick, disinfection and sanitation, and accidents and emergencies. Charts, manikin and preparations are used in class.

*Descriptive Chemistry* is taught by text-book and lectures. The object of the course is to give the student a general knowledge of the most common elements, their sources, uses, compounds and behavior towards other elements and compounds, and to drill the student in writing formulæ and solving chemical equations. To accomplish this, each student will be expected to spend at least five hours each week in the Laboratory, studying the characteristics and reactions of the elements and their compounds, and performing the more simple experiments outlined in the text and lectures. Notes will be kept by each student, describing the experiment and giving the equation which represents the reactions taking place. The Professor will from time to time examine the note-books, and make such suggestions as he thinks helpful.

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## IX. ELOCUTION.

This department is open to all members of the Institute. Its aim is the correct and effective utterance of thought; special attention is given to Voice Culture, Articulation, including Pronunciation and Expression. Weekly Rhetoricals, in Bucknell Hall, afford ample opportunity for platform work. Bible Reading and the study of Shakespeare have places in the course.

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## PHYSICAL CULTURE.

The health of the students is made a prime object of attention, and sanitary requirements are carefully observed. The Institute Gymnasium has been refurnished and classes in Physical Culture are organized for the benefit of all students. The exercises practiced are such as tend to the development of grace and strength. The Jenness-Miller movements have been recently introduced. The Institute Campus of six acres furnishes facilities for exercise. Lawn tennis and other out-door games are encouraged.

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## ÆSTHETIC CULTURE.

It is intended that the pupils of the Institute shall have the influence unconsciously received from painting, music and refined surroundings, as well as direct instruction in Literature, Music and Art. Special instruction in Music and Art is given in the schools devoted to those objects. Exercises in free-hand Drawing are required of all students, except the Seniors.

The Art collection has been enriched by a fine oil painting, "Tobit's Offering to the Angels," presented by Mrs. H. S. Hopper.

Recently the Venus de Milo, and other casts have been added.



## SOCIAL CULTURE.

Pupils are trained to observe the usages of good society. Meetings of various organizations for improvement in Literature, Music and Art, and receptions at stated times in the charge of the pupils, give variety to student life. No effort is spared to give the pupils the advantages of a cultured home.

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## RELIGIOUS TRAINING.

The Institute is distinctively Christian in its influence. The morning Chapel exercises in Bucknell Hall are attended by the Institute students in common with the members of the other departments. Attendance upon Sabbath school and church services in town is required. All students have weekly recitations in Outline Inductive Bible Study. The students have organized several special classes for Scripture study.

*The Young Women's Christian Association*, composed of the officers and students of the Institute, meets on the second Sunday and on the second Thursday of each month. The regular Tuesday evening prayer-meeting, with other devotional meetings, missionary and temperance work, are in charge of this Association.

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## SPECIAL BRANCHES.

Italian and Spanish may be taken as optional studies, under the instruction of M. Elysée Aviragnet.

All optional studies must be pursued in connection with the regular classes.

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## ELOCUTION AND GENERAL CLASS EXERCISES.

Exercises in Spelling are required of all students except Seniors.

Bible instruction is given once a week throughout the entire course.

Essays are required of all students each month.

Two declamations are required of each student during each term.

Exercises in Elocution are required once a week of all classes. The textbook is Shoemaker's Practical Elocution, and the course of instruction includes :

Voice Culture ; Modulation ; Analytical Reading ; Articulation—Phonetics ; Expression—Gesture, and the study of Shakespeare.

Special individual instruction in Elocution is offered at fifty cents a lesson.



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PUBLIC EXERCISES.

**The Exercises of the Graduating Class**, held in Commencement Hall, form the closing exercises of the Institute. This year they will be held June 19th.

**The Exercises of the Fourth Year Class.**—Of special interest in the calendar of the Institute are the Exercises of the Fourth Year Class, being a combined musical and literary entertainment held in Bucknell Hall. These exercises will take place this year Saturday evening, May 5th.

**The Contest in Elocution** takes place May 12th in Bucknell Hall. A prize is offered for which all members of the Institute are allowed to compete.

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## ALUMNÆ AND OTHER SOCIETIES.

**The Alumnæ Association** holds its anniversary during Commencement Week. The date for 1894 is June 18th.

During Commencement Week, as far as the accommodations will permit, Alumnæ who take part in the Anniversary will be entertained at the Institute.

**The Lewisburg Alumnæ Club** meets at the Institute on the second Tuesday evening of each month during term-time, at 7 o'clock.

**The Students' Loan Society** meets in the parlors of the Institute on the first Tuesday morning after the opening of each term, at 9 o'clock.

The annual meeting for the election of officers is held at the Institute on the first Tuesday after the opening of school in September.

All contributions to the Society should be sent to the Treasurer, Mrs. T. H. Purdy, Sunbury, Pa.

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## LITERARY CLUBS.

I. **The Current News Club** meets in the Institute parlors every Monday evening from 6:15 to 7 o'clock.

II. **The Shakespeare Club** meets in the Institute parlors on Thursday evening of each week from 6:15 to 7 o'clock.

III. **The Current Literature Club** meets on Saturday of each week at 2 P. M.

IV. **The French Club** meets on Friday from 6:15 to 7 P. M., in Class Room "B."

V. **A Literary Society**, open to all who board at the Institute, meets each Saturday at 8 P. M. for reading, discussions and music.

## LECTURES.

The young ladies attending the Institute have the privilege of attending the lectures delivered before the students of the University.

There are given to the young ladies *special* lectures on Friday afternoons. Lectures for 1894 will be given by Professors Groff, Owens, Perrine and Hulley of the College, Professor Aviragnet of the Institute, and Registrar Gretzinger.



# SCHOOL OF ART.

MISS CANDACE WOOD.

The facilities for the study of Art have been greatly enhanced by the accommodations allotted to this department, in a special Studio, which provides a spacious room with such adjustments for admission of light and supply of unencumbered wall surfaces as render it precisely adapted for the execution and display of art productions.

For such students as desire opportunity for serious work preparatory to professional study in Paris or elsewhere, and for those who wish to fit themselves to give systematic instruction in drawing, the following course is provided :—

**First Year.**—Drawing in Pencil, Charcoal and Crayon from solid geometrical forms, and portions of the human figure, with the necessary elements of Perspective, thus learning the laws of Proportion and the relations of Light and Shade.

**Second Year.**—Drawing from the Antique in Coal, Crayon, Sepia or oil Monochrome ; Modeling in Clay or Wax. Study in Color from Draperies and Still Life.

**Third Year.**—Composition, Color in Landscape, Pen and Ink Drawing and Painting in Color from Nature and from Life.

On successful completion of this entire course a certificate of proficiency will be awarded.

Students who do not desire the certificate course and whose interest is in Decorative Work, will receive the requisite instruction in the latest methods,—China Painting, Tapestry Dyeing and applied Design in other desirable mediums and materials.

Charges for instruction in Art are as follows :—

	<i>Per Annum.</i>
Drawing.....	\$24 00
Crayoning.....	33 00
Painting in Oil, Water Colors, Pastel or on China.....	60 00
Special individual instruction in Painting.....	<i>Per Lesson.</i> \$ 1 00

Free-hand Drawing is a part of the required work of the school, without extra charge, and is taught in the class-room to all students except the Seniors.

## ART EXHIBIT.

On the last three days of Commencement Week, a display of art products by the pupils of the School of Art is made in the Studio. At this time, a committee of art students receives and entertains all those who visit the Studio.



## SCHOOL OF MUSIC.

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**ELYSEE AVIRAGNET, A. M., MUS. DOC., DIRECTOR.**

The School of Music is under the special charge of a French artist, whose musical education was received at the Conservatory of Music in Paris, and who has had a large and successful experience in teaching. He is supported by competent assistants, and the course is designed to afford every needed facility for the study of Vocal and Instrumental Music. An ample supply of pianos from the best makers is provided for practice, including a Concert Grand.

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### INSTRUMENTAL MUSIC.

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#### **COURSE FOR THE PIANO-FORTE OF FOUR YEARS FOR GRADUATION.**

The pupil is required to pursue the most thoroughly approved modern system of technical training. After the first rudiments have been mastered, the course of instruction leads to the practice of *etudes*, designed to unite with purely technical drill the requirement of artistic style and expression.

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### PIANO.

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#### **FIRST YEAR.**

New England Conservatory Method, 1 and 2 parts ; LeCouppey Ecole du Mécanisme ; Duvernoy Ecole du Mécanisme, books 1, 2 and 3 ; Kohler, op. 157 ; Czerny, fifty Studies from op. 261, 821, 599 and 139, ed. of Henrich Germer ; Meyer, Progressive and Melodious Studies ; Robert Sutton's "The Elements of the Theory of Music ;" Brown, Musical Biographies of Composers.

#### **SECOND YEAR.**

Plaidy, Technical Studies ; Czerny, Polyrythmic Studies from op. 139, 834, 335 and 299 ; Czerny, Studies of Ornamentation from op. 355 and 833 ; Czerny, twelve Studies from op. 299 and 740 ; Czerny, thirty Studies from op. 299 and 834 (Henrich Germer Edition) ; Heller, Expression and Rythm, op. 125 ; Kul-lak, Preparatory Octave Studies ; Rockstro, Practical Harmony ; Rockstro, A History of Music.

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In the School of Music it is considered advisable that pupils do a certain amount of literary work.

**THIRD YEAR.**

Clementi "Gradus ad Parnassum;" Tausig, Daily Studies; Kohler, op. 112; Cramer Studies, books 1, 2 and 3; Czerny, thirty-six Octave Studies from op. 821, 335, 740 and 834 (Henrich Germer Edition); Richter, Harmony; Dr. Marx, Universal School of Music.

**FOURTH YEAR.**

R. Joseffy, Daily Studies; Czerny, twenty Studies from op. 335; Czerny, nineteen Studies from op. 740; Czerny, Toccata, op. 92 (Henrich Germer Edition); Kullak, Octave Studies; Chopin, Studies; Liszt, Studies; S. Bach, Well Tempered Clavichord (preludes et fugues); Kullak, Art of Touch; Richter, Counterpoint; Reicha, Course of Musical Composition.

During the four years, selected studies from Bertini, Rossellen, Moscheles, Herz and Thalberg are also given to the pupils.

That the æsthetic development may be proportionately secured, the above exercises are supplemented by the study of works of the best composers.

**COURSE FOR PIPE ORGAN.**

The course is based upon :

F. Schneider's Practical Organ School, Thayer, Dudley Buck Pedal Studies, and upon works of Rink, Batiste, Lefébure—Wely, Guilmant, etc., etc.

**COURSE FOR THE VIOLIN.**

This course is based upon :

Dancla's School of Mechanism; De Beriot's Violinist's First Guide; Fiorillo's Studies; Alard's Studies; Kreutzer's Studies, etc., with selections from the compositions of the best writers for this instrument.

**COURSE FOR THE VIOLONCELLO.**

Instruction for this instrument is based upon :

Méthode Pratique pour le Violoncelle, par S. Lee.

**COURSE FOR VIOLA.**

Bruni's Method and Studies.

**COURSE FOR CONTRIBASSO (DOUBLE BASS).**

Bottesini's Method.

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**THE ORCHESTRA.**

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**CLASSES FOR ALL ORCHESTRAL INSTRUMENTS.**

Students who are sufficiently advanced in any of the above musical instruments will have opportunity of practice in string quartettes, trios, concertos, and symphonies of Beethoven, Mozart and Haydn. The Orchestra furnishes the music for the public entertainments of the Institute.

## THE BAND.

A Brass Band, consisting of about twenty pieces, has been organized, and is led by M. Elysée Aviragnet, Director of the School of Music. The Band meets weekly in Bucknell Hall for rehearsal, and furnishes street and concert music for University and town exercises.

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## VOICE CULTURE.

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### COURSE OF THREE YEARS FOR GRADUATION.

Careful instruction is given in the use of the voice, and the correct manner of producing purity of tone. To secure control over the voice and gain for it flexibility, fullness and durability, thorough drill is afforded in such technical exercises as :

Lamperti's Italian Method ; Ciro Pinsuti's Daily Exercises ; the Vocalises of Rossini, Marchesi, Brodogni, Ronconi and Concone ; Duprez's *L'Art du Chant* ; Lamperti's Studies in Bravura Singing. For expression and the development of a pure style practice is afforded in singing the best English, German, Italian and French Songs, Operatic Arias, and Solos from the Oratorios.

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## COURSE IN HARMONY.

It is urgently recommended that the study of Harmony be included with other musical work, inasmuch as a sound knowledge of its principles is essential to the success of all vocalists and instrumentalists. The text-books used are :

Rockstro's Practical Harmony ; Richter's Counterpoint, Reicha's Course of Musical Composition.

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## RECITALS.

On the Friday evening prior to Commencement Week a public recital of the School of Music is held in Bucknell Hall.

The public examination of those who desire certificates of proficiency, is held in Bucknell Hall the Saturday afternoon before Commencement. At this time, each pupil plays or sings two pieces of high grade, and reads an essay on the subject of music.



## TUITION.

Extra tuition is charged for instruction in Music, as follows :

*Per Annum.*

Vocal Music.....	\$60 00
Music on Piano, <i>or</i> Organ.....	60 00
Harmony in Class.....	18 00
Harmony private lessons.....	60 00
Use of Instrument for practice .....	10 00

*Per Lesson.*

Special individual instruction in Music....	\$1 00
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No reduction will be made except in case of protracted illness.

Instruction in the Orchestra and in Harmony is free to pupils otherwise studying music.

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## BOARD.

Pupils in music reside in the Institute, and are under the care of Mrs. Larison, Principal of the Institute. Students pursuing any of the Institute courses can also take studies in music. Those who wish to make music a specialty are recommended to take at least one study each term in Language or Literature, for which no additional charge will be made. When two or more studies are taken in the Literary Department, the regular rates will apply.

The regular charges for pupils in music, residing in the Institute, including one literary subject per term, are \$190 per annum. This *does not* include charges for instruction in music, which are determined by the number of lessons taken per week.

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## GRADUATION.

Students who complete any of the Courses in Music and pass the examinations, receive a certificate of proficiency. Students will not be ranked as Seniors until they have passed an examination before the Committee. Besides the examination before the Committee for admission to the Senior Class, students will be required to pass a preliminary examination at the opening of the Spring term, and a final examination before Commencement Week. Students will not be admitted to the final examination unless they have passed the preliminary examination.

## GENERAL INFORMATION.

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### ADVANTAGES.

The Bucknell Institute offers to young ladies unusual educational advantages. Its location in a University town assures an atmosphere of study, and the benefit of numerous literary exercises, lectures and addresses. The students in the Institute have the use not only of the Library and apparatus of the Institute, but of the College as well, including the Astronomical Observatory, Chemical Laboratory, Museum, and the various apparatus of the University. An isolated school could not provide for itself these advantages at a cost of less than a quarter of a million dollars.

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### ADMINISTRATIVE AND OTHER REGULATIONS.

1. The general control of the Institute is vested in the President of the University.
  2. The government of the Institute, subject to such control, rests with the Principal of the Institute.
  3. Young ladies attending the College are subject to the rules and regulations governing the young ladies attending the Institute.
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### RULES.

The rules of the Institute are few and simple and such as contemplate relations with those only whose purpose it is to conform to reasonable laws.

Parents should not seek to direct the movements of their daughters in such particulars as to interfere with the regulations of the Institute, which regulations during term-time are expected to prevail.

The following are selections from the regulations :

1. No student is allowed to leave the Institute grounds at any time without permission from the Principal.
2. Unless for reasons very satisfactory, students from a distance are not permitted to visit their homes, or to leave the Institute to visit with relatives or friends in the town.
3. None but near relatives and friends from a distance are allowed to visit with boarding students, and such visits must be so arranged as not to interfere with the regular hours of study and recitation.

4. Students are not at liberty to invite guests to their private apartments, or to any part of the building, without permission from the Principal.

5. Teachers and students take their meals at the same table, and no special article of food is served to any one except in case of sickness.

6. Parents and guardians are particularly requested to refrain from furnishing their daughters and wards with *eatables of any kind*, except fruit.

7. Patrons visiting young ladies at the Institute may be accommodated with board at one dollar a day, if there are vacant rooms. In no case will students be required to give up their rooms to visitors. It is expected that all visitors will conform to the general regulations of the Institute.

8. Regular and systematic exercise, both in the open air and in the Ladies' Gymnasium, is required of each student.

9. In the Regular Course, the number of daily recitations is fixed. Special students are required to engage in such a number as may, in the judgment of the Principal, be sufficient to occupy their time.

10. The character of each recitation is recorded at the time, and the result, together with a statement of the general industry and deportment of the student, is sent to the parent or guardian at the close of the term.

11. The passing grade in any study is a definite one, and must be attained before promotion can be secured.

12. No room will be reserved for a student unless definitely engaged.

13. The books and current periodicals of the College and Institute Libraries are available for all students.

14. **ARTICLES REQUIRED.**—Each student should be provided with an umbrella, water-proof, overshoes, table napkins, towels, covers for bureau and washstand, counterpanes, sheets and pillow-cases ; size of pillow, twenty by thirty inches ; bureau, forty-three by nineteen inches ; washstand, thirty-two by sixteen inches.

Every article of clothing should be marked with the owner's name in full.

It is especially desired that the dress of pupils shall be simple and inexpensive. Whenever practicable, the wardrobe should be prepared at home, to avoid the necessity of frequent visits to town.

An infirmary, for such students who may become sick during their residence in the school, has been established in a portion of the main building, remote from all noise.

A dispensary, containing medicines, for use in sudden illness, has recently been established.





## PRIZES.

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The following Prizes have been established :

### THE BUCKNELL PRIZES.

The following Prizes have been founded by the late William Bucknell, of Philadelphia :

1. A First Senior Prize, to be awarded to the member of the graduating class who, being excellent in scholarship during the Senior Year, shall prepare the best essay.
2. A Second Senior Prize, to be awarded to the member of the graduating class who, being excellent in scholarship during the Senior Year, shall prepare the second best essay.

For the year 1893 the First Prize of twenty-four dollars was awarded to Oriana Williams ; and the Second Prize of sixteen dollars to Louise Lane.

3. A Third Senior Prize, to be awarded to the member of the graduating class who shall attain the highest grade in the studies of the Senior Year. This excludes all grades for studies not in the Senior Year, all Senior studies taken before the Senior Year, and all studies not taken in the University.

For the year 1893, this Prize of twenty-five dollars was awarded to Ruth Sprague.

4. A First Fourth Year Prize, to be awarded to the member of the Fourth Year Class who, being excellent in scholarship during the year, shall prepare the best Fourth Year essay.

5. A Second Fourth Year Prize, to be awarded to the member of the Fourth Year Class who, being excellent in scholarship during the year, shall prepare the second best Fourth Year essay.

For the year 1893 these Prizes were awarded as follows : Mabel Thomas received the First Prize of twenty dollars ; Harriet Lewis the Second Prize of fifteen dollars.

The Fund consists of \$2,000, the income from which is to be devoted to these prizes annually in a manner more particularly defined in the donor's communication to the Trustees.

Themes for the Bucknell Essay prizes for the years 1894, 1895 and 1896 will be drawn from the following works :

1894.—Shakespeare's Julius Cæsar ; Addison's Sir Roger de Coverley Papers ; Longfellow's Evangeline ; Hawthorne's House of Seven Gables ; Emerson's Representative Men.

1895.—Shakespeare's Merchant of Venice ; Macaulay's Essay on Milton ; Ruskin's Sesame and Lilies ; Whittier's Among the Hills ; Holmes' Autocrat of the Breakfast Table ; Hawthorne's Blithedale Romance.

1896.—Shakespeare's Henry VIII ; Lamb's Essays of Elia ; Carlyle's Heroes and Hero Worship ; Lowell's Vision of Sir Launfal ; Hawthorne's Mosses from an Old Manse.

#### THE LIPPINCOTT PRIZE.

An award of fifty dollars has been offered by Mr. Craig Lippincott, to the student who proves, on examination, to have the best command of the English Language, and the most thorough knowledge of British and American Literature. For the year 1893 this Prize was awarded to Oriana Williams and Ruth Sprague.

#### THE ELOCUTION PRIZE.

A Prize in Elocution is offered to that student who shall give the best recitation at the Annual Contest.

For 1893 the Prize was awarded to Nora Greene.

#### THE AVIRAGNET PRIZES.

Professor Elysée Aviragnet has established two Prizes, as follows :

##### MUSIC.

A Prize of ten dollars for excellence in Music.

For 1893 this Prize was awarded to Mary Belle Harris.

##### FRENCH.

A Prize of ten dollars for excellence in French.

For 1893 this Prize was awarded to Beulah Hayes.

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### SCHOLARSHIPS AND AIDS.

Free Scholarships, covering tuition, are awarded to children of Ministers of the Gospel *in actual service*.

The Students' Loan Society, organized June, 1887, will give aid to as many students of the Institute as possible. Applications for aid should be made to the President, Mrs. Katherine B. Larison, Lewisburg, Pa.

EXPENSES.

I. **Boarding Students.**—The regular charges for Boarding Students are \$225.00 per annum ; the other expenses, spending-money, books and clothing, are at the option of the individual student.

Boarding Students are charged extra for the washing of dresses, and for more than twelve pieces per week.

The rooms in the Bucknell Cottage are rented in suites, for which there is an extra charge, depending on the location.

	<i>Per Annum.</i>
Suite on the first floor.....	\$30 00
Suite on the second floor.....	34 00
Suite on the third floor.....	28 00

Each suite contains a study and two sleeping apartments, and has accommodations for, and will be occupied by, four persons, and the charge will be accordingly divided.

If a student arranges to occupy one of the large rooms, in the South Hall of the Main Building, by herself, extra room-rent will be charged.

Students will be charged for damage done to furniture or to the room they occupy.

II. **Day Students.**—The charges for Day Students amount to fifty dollars per annum, and are apportioned as follows :

	<i>Per Annum.</i>
Tuition. ....	\$36 00
Incidentals, etc.....	14 00
	<hr/>
	\$50 00

III. **Extra Studies.**—The charges for the same are enumerated under Elocution, Drawing and Painting, and Music.

Bills are payable *strictly in advance* ; or, by the 15th of September, January, and April. Checks and drafts should be drawn in favor of the Registrar of the University.

No bill will be made out for a shorter period than one term ; and no deduction will be made except in the charge for board in case of a prolonged absence on account of sickness.

The expenses for Music, Printing, and other charges ordinarily incurred at Examinations and on Anniversary occasions, are paid by the class or classes for which such expenses are incurred.

When music is furnished by the Institute Orchestra for public exercises, no charge is made.

The fee for Graduation and Diploma is five dollars.

Young ladies taking College courses have their residence in the Institute. For rates apply to the Registrar.

*For information respecting the Institute, address the Principal, Mrs. Katherine B. Larison, A. M., or the President of the University, John H. Harris, Ph. D., LL.D.*



## RAILROAD DIRECTORY.

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**P. & R.—The Shamokin, Sunbury and Lewisburg Division** of the Philadelphia and Reading Railroad passes through Lewisburg. Passengers from Philadelphia take a through car at the Reading Terminal either in the morning or evening. Roads tributary to the main line of the Reading connect with these trains at West Falls, Reading, Tamaqua, Mahanoy Junction, and Shamokin. Passengers on the line of the **Catawissa Railroad** can connect with trains for Lewisburg at West Milton.

**P. & E.—The Philadelphia and Erie Railroad** runs within one and a half miles of Lewisburg. Persons coming to Lewisburg stop at Montandon. From that place the **Lewisburg and Tyrone Railroad** runs through Lewisburg, and the trains on this road make connections with the Philadelphia and Erie Railroad.

Most of the following trains run through from the points named below without change of cars :

Several daily trains from Philadelphia, Baltimore, Pittsburg, Buffalo, Elmira and Williamsport ; two from New York, *via* Harrisburg or Scranton ; and one from Erie.

**Penna. R. R.**—Passengers from Pittsburg and other points on the **Pennsylvania Railroad** can reach Lewisburg *via* Tyrone and Lock Haven, or *via* Tyrone and Bellefonte, or *via* Lewistown and Sunbury, or *via* Harrisburg and Montandon, according as they are located on the line.

The above trains connect at all intermediate points. All of the above roads have fast express trains passing through Lewisburg.

**D. L. & W.—The Lackawanna and Bloomsburg Railroad** connects with the Philadelphia and Erie Railroad at Northumberland.

# UNIVERSITY CALENDAR.

1893=1894.

SECOND TERM ends.....Friday, March 23, 1894.

## SPRING RECESS.

THIRD TERM begins.....Tuesday, April 3, 1894.  
SERMON BEFORE THE Y. M. C. ASSOCIATIONS.....Sunday, April 15, 1894.  
DECLAMATION OF THE THIRD FORM, Academy.....Saturday, April 28, 1894.  
EXERCISE OF THE FOURTH YEAR CLASS, Institute.....Saturday, May 5, 1894.  
CONTEST IN ELOCUTION, Institute.....Saturday, May 12, 1894.  
EXHIBITION OF THE JUNIOR CLASS, College.....Friday, May 11, 1894.  
EXAMINATION OF THE SENIOR CLASS, College.....Wednesday, May 16, 1894.  
OTHER EXAMINATIONS.....Thursday to Saturday, June 14 to 16, 1894.  
EXHIBITION, School of Music.....Friday, June 15, 1894.  
BACCALAUREATE SERMON.....Sunday, June 17, 1894.  
SERMON BEFORE THE EDUCATION SOCIETY.....Sunday, June 17, 1894.  
EXAMINATIONS FOR ADMISSION TO COLLEGE.....Monday, June 18, 1894.  
MEETING OF THE ALUMNÆ OF THE INSTITUTE.....Monday, June 18, 1894.  
ORATION BEFORE THE LITERARY SOCIETIES.....Monday, June 18, 1894.  
ANNUAL MEETING OF THE TRUSTEES.....Tuesday, June 19, 1894.  
ANNUAL MEETING OF THE ALUMNI.....Tuesday, June 19, 1894.  
EXHIBITION OF THE FOURTH FORM, Academy.....Tuesday, June 19, 1894.  
GRADUATING EXERCISES OF THE INSTITUTE.....Tuesday, June 19, 1894.  
ORATION BEFORE THE ALUMNI.....Tuesday, June 19, 1894.  
*Annual Commencement, the 44th*.....Wednesday, June 20, 1894.

## SUMMER VACATION.

EXAMINATIONS FOR ADMISSION TO COLLEGE Wednesday, September 12, 1894.  
INTRODUCTORY ADDRESS.....Wednesday, September 12, 1894.  
FIRST TERM begins.....Thursday, September 13, 1894.  
RECEPTION BY CHRISTIAN ASSOCIATIONS.....Saturday, September 15, 1894.  
THANKSGIVING (recess of three days).....Thursday, November 29, 1894.  
FIRST TERM ends.....Wednesday, December 19, 1894.

## HOLIDAY RECESS.

SECOND TERM begins.....Wednesday, January 2, 1895.  
DAY OF PRAYER FOR COLLEGES.....Thursday, January 24, 1895.  
SECOND TERM ends... ..Friday, March 22, 1895.

## SPRING RECESS.

THIRD TERM begins.....Tuesday, April 2, 1895.  
SERMON BEFORE THE Y. M. C. ASSOCIATIONS ... ..Sunday, April 7, 1895.  
THIRD TERM ends.....Wednesday, June 19, 1895.



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# THE FORTY-FIFTH ANNUAL CATALOGUE

OF THE

Officers and Students

OF

# BUCKNELL UNIVERSITY,

LEWISBURG, PA.,

FOR THE YEAR, 1894-'95.

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W. F. HUMPHREY, PRINTER,  
GENEVA, N. Y., 1895.

## LOCATION.

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The University is located at Lewisburg, near the geographical centre of the State, on the West Branch of the Susquehanna River, in a valley famous for healthfulness and beauty. In addition to the natural advantages of the site, the founders of the institution appreciated the quiet of an inland town for economical support and retirement in study, particularly as it was found that other corporations had so located "their respective colleges as to leave in the central and northern part of Pennsylvania, a region extending more than two hundred miles from East to West, and more than one hundred from North to South, wholly unoccupied by any literary institution above the grade of an ordinary academy." Since the founding of the University, the multiplication of railroads has rendered access easy to every part of the State.





# PLAN AND PURPOSE OF THE UNIVERSITY.

## CORPORATE RIGHTS.

The University was incorporated with full University privileges, by the Legislature of Pennsylvania in an act approved by the Executive on the fifth day of February, A. D. 1846. The Management of the University is committed to a Board of Trustees, consisting of twenty-five members, or fewer, at the option of the Board. The Trustees are prohibited, for any cause, or under any pretext whatever, from encumbering by mortgage or otherwise the real estate or any other property of the Institution. It is required by the charter, that no religious sentiments are to be accounted a disability to hinder the election of an individual to any office among the teachers of the Institution, or to debar persons from attendance as pupils, or in any manner to abridge their privileges or immunities as students in any department of the University.

## ENDOWMENT.

The Institution has productive funds amounting to over four hundred thousand dollars. The endowment funds, raised at various times, were increased, in 1881, to an even two hundred thousand dollars. Since that time William Bucknell has contributed to the general fund one hundred and fifteen thousand dollars, and for scholarships and prizes about twenty-five thousand dollars.

The raising of one hundred thousand dollars additional endowment was completed July 1st, 1892.

## FORM OF BEQUEST.

To persons desiring to aid in increasing the efficiency of the schools in the work of preparing young men and young women for usefulness, the following form of bequest is recommended:

*I give and bequeath to the Bucknell University, at Lewisburg, Pa., the sum of .....dollars for the general purpose of said school, according to the Act of Assembly incorporating the same.*

## ORGANIZATION.

The University aims to impart sound instruction in all non-professional studies. It comprises four Departments:

I. The College offers three courses of study, leading respectively to degrees in Arts, Philosophy and Science.

II. The Institute for young women has three courses of study, the Literary, the Classical and the Scientific, leading to diplomas, but not to degrees.

III. The Academy is designed to fit young men for College, either for the Classical, Philosophical or Scientific course.

IV. The School of Music has full courses in instrumental and vocal music, and grants diplomas to those who complete either of the specified courses.

These schools are one corporation, have one President, who has general charge, with a principal in more immediate charge of each of the subordinate departments. All expenses are met from funds in the hands of a common treasurer.

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 REV. HENRY G. WESTON, D. D.,  
 HON. S. P. WOLVERTON, A. M.

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\*Deceased.

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## MEETINGS OF THE BOARD.

The annual meeting is held on Tuesday of Commencement week, at Lewisburg, Pa.

The semi-annual meeting is held on the second Thursday of January, at 1420 Chestnut Street, Philadelphia, Pa.

## COMMITTEES OF THE BOARD.

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\* Deceased.



## THE UNIVERSITY PROPERTY.

### I. THE COLLEGE.

The College building is situated on a hill which rises one hundred feet above the Susquehanna River, and overlooks scenery of unsurpassed beauty. It has a façade of three hundred and twenty feet. The building was designed by Thomas U. Walter, LL.D., architect of the dome and wings of the Capitol, at Washington, D. C., and is in the Grecian style, combining dignity and simplicity. The central portion is eighty feet square, and is strengthened in front by four massive columns. Within, on the first floor, are five recitation rooms.

On the second floor are the Halls of Theta Alpha and Euepia Literary Societies, the Library-room, Reading-room and Museum of Natural History.

In the third story is Commencement Hall, with a seating capacity of fifteen hundred.

The wings on the eastern and western side, respectively, of the Main Building, are each one hundred and twenty feet in length, and four stories high, and are used for student's rooms. Each sleeping room above the second floor is supplied with a fire escape.

Several thousand dollars have been expended recently in improving the college building.

### II. BUCKNELL HALL.

Bucknell Hall is used as a chapel, in which all the students meet every morning for worship. These exercises give unity to the life of the University, and base the unity upon religious principles. The time is devoted wholly to worship, consisting of singing, reading of Scripture and prayer.

### III. BUCKNELL OBSERVATORY.

The Observatory was erected in 1887, and is designed for the use of students in Practical Astronomy.

The entire equipment is new and represents the latest improvements in this class of instruments. It consists of a Clark Equatorial Telescope of 10 inches aperture and 12½ feet focal length, furnished with a fine position Micrometer and all the usual accessories; a Spectroscope, with prism and grating by Brashers, the grating having 14,500 lines to the inch; a 3-inch Prismatic Transit with a 13 wire movable Micrometer, by T. Ertel & Sons; a Fauth Chronograph with Bond spring governor; a Waldo Precision Clock for sidereal time, with mercurial compensation, break circuiting apparatus; Daniell's battery and telegraph sounders; a Seth Thomas Clock for solar time; a Sextant; a 3-inch Altitude Azimuth Refractor; a set of Meteorological instruments; Celestial globes and maps, and standard works on Theoretic and Practical Astronomy.

#### IV. THE BUCKNELL LABORATORY.

The Laboratory, erected in 1890, is a building forty-three feet in width and eighty-six feet in length, and has two stories above the basement. In the first story, which has a clear height of fifteen feet, are a lecture room, with a seating capacity for one hundred and twenty-five students, and a large working-room, in which are tables for individual work in Chemical Analysis; the second floor contains a lecture-room for the class in Physics, and one room each for Quantitative and Qualitative Analysis; the basement has a dark room for Photometry, a room for Applied Chemistry, another for Electricity, and a fire-proof room.

#### V. THE TUSTIN GYMNASIUM.

The basement of the Gymnasium is built of stone, and contains rooms for students' lockers, wardrobes and dressing-rooms and shower-baths. The second story is built of brick, rising twenty-two feet from the main floor to the square, and is open to the roof. At the height of twelve feet, a running track gallery, six feet wide, surrounds the room.

#### VI. THE UNIVERSITY ATHLETIC FIELD.

The field is conveniently located at the foot of "College Hill," and has been graded and fitted up at a great expense for out-door sports. In the north-west corner, at the main entrance to the college grounds, a shaded section has been set aside for tennis. The tennis courts are carefully graded, laid out and protected by wire-netting. The athletic field is sufficiently large for foot ball, base ball and lacrosse. The slope of "College Hill" furnishes a natural "Grand Stand." Tustin Gymnasium is located at the end of the field, so as to be near the centre of exercise, and easily accessible to the trainers and athletes.

#### VII. THE ACADEMY.

The Academy building, situated on "College Hill," is fifty feet in width by eighty feet in length and three stories high; on the first floor is a dining-room, thirty feet by thirty-six feet; two recitation-rooms, a reception-room and the Principal's office; on the second floor are suites of rooms for the Principal and his family and for the Matron, and a society-hall; the third floor is occupied by students' rooms. These are twenty feet by twelve feet and fourteen feet high. Over three thousand dollars have been recently expended in the improvement of this building. Borough water and steam heat have recently been introduced.

#### VIII. THE EAST HALL.

This is the Bucknell Cottage for young men, and is contiguous to the Academy building and connected with it by a covered passage-way. It is a brick building, three stories high, sixty feet in length and forty feet in width, and is finished in natural wood. The building contains a recitation-room, teachers' apartments, and rooms for thirty-seven students. The rooms have high ceilings, large double windows with inside shutters, two commodious closets each, and are warmed by steam radiators.



## IX. THE INSTITUTE.

The Campus of the Ladies' Institute is separate from that of the College and comprises six acres.

The Main Building contains, on the first floor, an office for the Principal and the Registrar, a reception-room, the office of the Director of Music, five music-rooms, two recitation-rooms and a dining hall; on the second floor a school-room and a parlor, elegantly furnished; on the third floor a library-room, teachers' apartments and students' rooms.

The South Hall, erected in 1869, is devoted to students' rooms, except the third story, which is used as a gymnasium. This gymnasium has been lately renovated and equipped. Drills are given regularly with light apparatus.

## X. THE BUCKNELL COTTAGE.

This building stands to the southwest of the Main Building, and is connected with it by an enclosed passage-way. It is built of brick, in the Queen Anne style of architecture, and has dimensions of one hundred feet by thirty-three feet. The interior is finished in natural wood, and is equipped, in matters of light, heat and ventilation, with modern improvements.

The portion allotted to students' rooms affords accommodations for forty occupants. These rooms are in suites on the general plan of a centre parlor, with bed-rooms and closets on either side. The most spacious room of the building and its chief attraction is the Studio, with such adjustments for the admission of light and supply of unencumbered wall surfaces as adapt it for the execution and display of art products.

All the Institute buildings are supplied with hot and cold water. Steam pipes and radiators warm every room. The drainage is faultless; stagnant water and dampness are impossible. The constant good health of the students bears testimony to the good sanitary condition of the school.

## XI. THE INSTITUTE CAMPUS.

The Campus of the Ladies' Institute comprises six acres, separated from the college grounds by Loomis Street, and contains a grove of native trees, with beautifully shaded walks. Two courts furnish opportunity for tennis. Outdoor games and exercises are encouraged, for which the Institute campus furnishes fine facilities.

## XII. THE PRESIDENT'S HOUSE.

The Corporation also owns a house for the use of the President of the University. It is surrounded by a beautiful lawn of two acres.



# THE COLLEGE.

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PALMER LEWIS WILLIAMS,	<i>Scranton.</i>	No. 16, East Wing.

SOPHOMORES.....40.

## THE FRESHMAN CLASS.

NAME.	RESIDENCE.	ROOM.
JOHN TRUMAN ANDERSON,	<i>Lewisburg.</i>	Mrs. Margaret Anderson.
ENOS COOK BAKER,	<i>Ercildoun.</i>	No. 27, West Wing.
DONALD THOMPSON BAKER,	<i>Lewisburg.</i>	Home.
LOUIS HECKER BURGE,	<i>Vineland, N. J.</i>	No. 16, West Wing.
MARY EVANS CHAMBERS,	<i>West Chester.</i>	Mrs. Fannie R. Dutton.
CHARLES WOLVERTON CLEMENT,	<i>Sunbury.</i>	No. 20, East Wing.
JOHN ALEXANDER CUTLER,	<i>Philadelphia.</i>	No. 3, West Wing.
GEORGE MORGAN DAVIS,	<i>Atlantic Highlands, N. J.</i>	No. 30, East Wing.
JAMES ROBERT LINCOLN DIGGS,	<i>Forrestville, Md.</i>	No. 32, West Wing.
HENRY GILBERT DILL,	<i>Washington, D. C.</i>	No. 10, East Hall.
HERBERT C. DOWNING,	<i>Lehman.</i>	No. 13, East Wing.
ELWOOD HERBERT DUTTON,	<i>Lewisburg.</i>	Mrs. Fannie R. Dutton.
DAVID HAYES ELLIOT,	<i>Hartleton.</i>	No. 15, East Wing.
LEVI TRUCKENMILLER FETZER,	<i>Milton.</i>	No. 2, West Wing.
HARRY CHESTER FITHIAN,	<i>Greenwich, N. J.</i>	No. 19, East Wing.
EDWARD FLINT,	<i>Philadelphia.</i>	No. 32, East Wing.
ANDREW MADISON FORRESTER,	<i>Moreland.</i>	No. 32, East Wing.
SIMON WARD GILPIN,	<i>Newfoundland.</i>	No. 26, West Wing.
HARRY BOOTH HAZEN,	<i>Achor, Ohio.</i>	No. 17, East Wing.

NAME.	RESIDENCE.	ROOM.
QUIRAF HARLAN,	<i>Washington, D. C.</i>	No. 30, East Wing.
WALTER LIDDELL HILL,	<i>Rochester, N. Y.</i>	No. 20, East Hall.
FRED BURTON HUNT,	<i>Square Top.</i>	No. 26, East Wing.
GEORGE ALBERT JENNINGS,	<i>Great Bridge, Va.</i>	No. 26, West Wing.
FRANK CLARK KATHERMAN,	<i>Lewisburg.</i>	Home.
EUGENE EYER KERSTETTER,	<i>Lewisburg.</i>	Home.
CHARLES DISON KOCH,	<i>Clarkestown.</i>	No. 17, West Wing.
RALPH FREDERICK KOONS,	<i>Huntingdon Mills.</i>	No. 22, West Wing.
JOHN GRANT LAUDERBAUGH,	<i>Library.</i>	No. 18, East Wing.
DANIEL KLYNE LAUDENSLAGER,	<i>Quakertown.</i>	No. 25, East Wing.
ANDREW ALBRIGHT LEISER, JR.,	<i>Lewisburg.</i>	A. A. Leiser, Esq.
CHARLES ARTHUR LINDEMANN,	<i>Philadelphia.</i>	No. 15½, West Wing.
JAMES BROWN MARTIN,	<i>Lewisburg.</i>	Prof. Martin.
GEORGE LEWIS MEGARGEE,	<i>Coatesville.</i>	No. 27, East Wing.
ROY BROWN MULKIE,	<i>Union City.</i>	No. 15, East Hall.
HIRAM LONG PURDY,	<i>Sunbury.</i>	No. 16½, East Wing.
WILLIAM CAREY PURDY,	<i>Corsica.</i>	No. 18, East Wing.
ROBERT VINCENT REX,	<i>Mauch Chunk.</i>	No. 8, West Wing.
GEORGE TILDEN RITTER,	<i>Williamsport.</i>	No. 29, East Wing.
ANNA MAY RODGERS,	<i>Allentown.</i>	Mrs. Fannie R. Dutton.
FRANK SPURGEON ROGERS,	<i>Muncy.</i>	No. 33, East Wing.
HARRY MILTON ROTH,	<i>Goldenville.</i>	No. 25, East Wing.
JOHN ELMER SAUL,	<i>Lewisburg.</i>	Home.



NAMB.	RESIDENCE.	ROOM.
HARRY W. GREEN SAVIDGE,	<i>Sunbury.</i>	No. 20, East Wing.
ANNA GERTRUDE SIEBER,	<i>Lewisburg.</i>	Rev. L. L. Sieber.
FLORA ANN SIEGEL,	<i>Watsonstown.</i>	Institute.
ROBERT GREEN SLIFER,	<i>Lewisburg.</i>	Home.
ARTIE ANSON SMITH,	<i>Liberty.</i>	No. 12, West Wing.
EDNA EUDOLPHIA STIFLER,	<i>Chester.</i>	Bucknell Cottage.
JAMES PALM STOBER,	<i>Kieinfeltersville.</i>	No. 7, West Wing.
BENJAMIN FRANKLIN THOMAS,	<i>Clifford.</i>	No. 24, East Wing.
FRANK WILLIAM TILLEY,	<i>Bridgeton, N. J.</i>	No. 14, East Hall.
MORRIS CRAMER VAN GUNDY,	<i>Lewisburg.</i>	Prof. Van Gundy.
JOHN WALLS,	<i>Lewisburg.</i>	Mr. W. C. Walls.
FRESHMEN.....		55.

## PURSUING SELECT STUDIES.

NAME.	RESIDENCE.	CLASS.
MAHLON L. BOTTS,	<i>Stonersville.</i>	Latin.
ALLEN OSCAR FINN,	<i>Clifford.</i>	Sciences.
HARRY L. FREAS, JR.,	<i>Berwick.</i>	Sciences.
AMZI WILSON GEARY,	<i>Carbondale.</i>	Sciences.
ALICE CUSHING HARTLEY,	<i>Guelph, Ont.</i>	English.
MABEL WOLFE THOMAS,	<i>Lewisburg.</i>	German.

## SUMMARY.

Graduate Students.....	8
The Senior Class.....	26
The Junior Class.....	37
The Sophomore Class.....	40
The Freshmen Class.....	55
Pursuing Select Studies.....	5
Total.....	171
In other Departments.....	214
Total in all Departments.....	385

## ADMISSION.

### TO FRESHMEN STANDING.

**I. General Requirements.**—Examinations for admission to the Freshman Class will be held on Monday of Commencement week, June 11th. Candidates will assemble in Bucknell Hall at 8.30 A. M.

Similar examinations are also held on the day preceding the opening of each term. In special cases, candidates may be examined and admitted at other times in the year.

Candidates are expected to be well prepared in the English branches named below. They will be as strictly examined in these studies as in the Ancient Languages and Mathematics.

There must be furnished to the President by the candidate, satisfactory testimonials of good moral character, and, if from another college, a certificate of honorable dismissal must be presented.

The required age for admission to the Freshman Class is fifteen years.

**II. Particular Requirements.**—They are as follows for the respective courses :

#### I. THE CLASSICAL COURSE.

To enter the Classical Course, the student must sustain an examination in:—  
ENGLISH.

1. Writing from dictation.
2. English Grammar.
3. Elements of Rhetoric—Invention, Style and Punctuation.
4. A brief composition upon a subject assigned at the time of the examination.

In 1895, the list will be Shakspeare's Merchant of Venice and Twelfth Night, Milton's L'Allegro, Il Penseroso, Comus, and Lycidas, Longfellow's Evangeline, the Sir Roger de Coverly papers in the Spectator, Macaulay's Essay on Milton and on Addison, Webster's First Bunker Hill Oration, Irving's Sketch Book, and Scott's Abbot.

In 1896, Shakspeare's Merchant of Venice and Midsummer Night's Dream, Milton's L'Allegro, Il Penseroso, Comus, and Lycidas, Longfellow's Evangeline, Macaulay's Essay on Milton, Webster's First Bunker Hill Oration, De Foe's History of the Plague in London, Irving's Tales of a Traveller, Scott's Woodstock, George Eliot's Silas Marner.

In 1897, Shakspeare's Merchant of Venice and As You Like It, Scott's Marmion, Longfellow's Evangeline, Burke's Speech on Conciliation with America, Macaulay's Life of Samuel Johnson, De Foe's History of the Plague in

London, Irving's Tales of a Traveller, Hawthorne's Twice Told Tales, George Eliot's Silas Marner.

#### MATHEMATICS.

1. Arithmetic, including the Metric System.
2. Algebra, including Quadratic Equations. The requirements in this study are intended to include the treatment of Radicals, and will be most nearly met by the use of Well's University Algebra.
3. Plane Geometry.

#### LATIN.

1. Latin Grammar—Allen and Greenough's, or Harkness'.
2. Daniell's Latin Prose Composition.
3. Four Books of Cæsar's Commentaries.
4. Six Orations of Cicero.
5. Six books of Vergil's *Æneid*.

#### GREEK.

1. Greek Grammar—Hadley and Allen's, or Goodwin's.
2. The equivalent of Jones' Greek Prose Composition—20 Lessons.
3. Greek Reader.
4. Four books of Xenophon's *Anabasis*.
5. Three books of Homer's *Iliad*.

#### HISTORY.

1. History of Rome.
2. History of Greece.
3. Elements of United States History.

#### SCIENCE.

1. Geography—Descriptive, Political and Physical.
2. The student is recommended to read some elementary work on Physics and Physiology, also Morse's "First Book in Zoölogy," Gray's "How Plants Grow," and Dana's "Geological Story Briefly Told." This reading should be done before entering upon the studies of the Sophomore year. The necessary books can be obtained in the University Library.

In any of the subjects of examination, satisfactory equivalents will be accepted instead of the text-books named.

### II. THE PHILOSOPHICAL COURSE.

I. THE LATIN DIVISION.—To enter the Latin Division of the Philosophical Course, the candidate must sustain an examination in the above-named studies, except Greek, and in Elementary Physics and Physiology.

II THE GREEK DIVISION.—To enter the Greek Division of the Philosophical Course, the candidate must sustain an examination in the above-named studies, except Cicero and Vergil, and in Elementary Physics and Physiology.

### III. THE SCIENTIFIC COURSE.

To enter the Scientific Course, the candidate must sustain examination in English Grammar, Elements of Rhetoric, English Composition, Arithmetic, including the Metric System; Algebra, through Quadratic Equations and Plane Geometry; Latin Grammar, Latin Composition (Daniell's Part I, or an equiv-



alent), Cæsar's Commentaries, Four Books; Elementary Physics, Physiology and Hygiene, and Botany; Geography, Mathematical, Political and Physical; History of the United States, General History and Civil Government.

#### CONDITIONAL ADMISSION.

A candidate failing to pass in one or more of the subjects required for admission, may, at the discretion of the Faculty, be admitted to his class conditionally, to make up his deficiencies by extra study. When they are made up, he will be received into full standing in his class.

#### SPECIAL STUDENTS.

Young men who do not desire to take a full regular course, can enter and select special shorter courses, with the sanction of the Faculty; but in all cases, satisfactory examinations must be passed upon the subjects required for admission to the Freshman Class of the course from which they intend to select.

Students who have completed a course of study in preparatory schools of high grade, may be admitted upon the certificate of the Principal of the school from which they come. Blank forms may be obtained by addressing the Registrar.

Graduates from Bucknell Academy in the Classical Course, or in the Scientific Course, will be admitted to the corresponding course in College upon the certificate of the Principal of the Academy.

Graduates of Pennsylvania State Normal Schools are admitted to the Scientific Course without examination.

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### TO ADVANCED STANDING.

**I. General Requirements.**—A proportionate increase of age is requisite for admission to advanced classes, over that required for admission to Freshman standing. Other general requirements are the same as for admission to the Freshman Class.

**II. Particular Requirements.**—Candidates for admission to advanced classes are examined both as for admission to Freshman standing, and also in the studies that have been pursued by the class which they desire to enter.

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### LOCAL EXAMINATION FOR ADMISSION.

Arrangements have been made for conducting entrance examinations at Philadelphia, Pittsburg, Harrisburg and Scranton. Those intending to present themselves for examination at either of these places should inform the President of the University of their intention, and the necessary information as to details will be furnished.

These examinations will be held Friday, June 14, 1895.

## COURSES OF STUDY.

The following Courses of Study may be pursued in the College :

I. **The Classical Course** extends through four years, and aims to furnish a liberal education in the classics, the sciences, the arts, and literature. It comprises, substantially, the studies of the established college curriculum, with the addition of such branches as modern life seems to demand. The studies in the Freshman and Sophomore years are all required ; in the Junior and Senior years, most of the studies are elective. Students who have satisfactorily pursued this course are admitted to the degree of Bachelor of Arts.

II. **The Philosophical Course**, with Latin or Greek, in each of its two divisions, also extends through four years, and aims to furnish a thorough training in advanced studies to those who desire to pursue but one of the Ancient Languages. This course contains four terms of such language study, be it of Latin or Greek, most of the other studies of the Classical Course, with some addition of Scientific subjects. Students pursuing this course, recite, as far as possible, with classical students. Those who have satisfactorily completed the studies of the course are admitted to the degree of Bachelor of Philosophy.

III. **The Scientific Course** extends through four years, and is substantially the same as the Philosophical Course, with the substitution of additional Mathematical and Scientific studies for Latin and Greek. Those who have completed the course are admitted to the degree of Bachelor of Science.

In the selection of optional studies in the above courses, the choice must be made with the approbation of the Faculty.

IV. **The Eclectic Course** is not limited to any definite time, and does not lead to any degree. It is designed to furnish advanced instruction in literature, science, and the arts, to students who do not intend to pursue a regular course of study, but desire to select certain branches. The College will furnish special students with such studies as they may elect only at times announced in the Curricula, found on another page. Every student is required to select at least three studies from those taught during any given term, and these are to be pursued at the same time. Students will not be allowed to pursue studies for which they are not fully qualified by their previous training. A certificate will be given by the President, at any time, stating what studies have been completed and the grade attained in them. This certificate will be accepted as equivalent to an examination, provided the holder, at any time, prefers to be transferred to any one of the regular courses.

V. **Advanced Courses in Literature, Philosophy and Science** have been established, leading respectively to the degrees of Master of Arts, Master of Philosophy and Master of Science. These courses are open to graduates of Bucknell University. Particulars may be learned by addressing the President.

## CURRICULA.

### THE CLASSICAL COURSE.

*Leading to the Degree of Bachelor of Arts.*

#### FRESHMAN YEAR.

- |  |  |
|--|--|
| I. TERM— { Geometry,<br>{ Algebra,<br>Cicero de Senectute and Livy,<br>{ Lysias' Orations,<br>{ Greek Prose Composition, | Hygiene,<br>Elocution,<br>English Composition,<br>Lectures on the Essay. |
| II. TERM— { Trigonometry,<br>{ Algebra,<br>Livy,<br>Herodotus and Thucydides,  | Derivatives,<br>Elocution,<br>English Composition,<br>Greek Testament.   |
| III. TERM—Analytical Geometry,<br>Paterculus and Pliny,<br>Odyssey,  | Chemistry,<br>Elocution,<br>English Composition,                         |
| Greek Testament.   |  |

#### SOPHOMORE YEAR.

- |  |  |
|--|--|
| I. TERM—General Chemistry,<br>Horace,<br>Rhetoric,   | Linear Perspective,<br>Elocution,<br>English Composition.    |
| II. TERM—Animal Physiology,<br>Demosthenes,<br>English Literature,   | Sanitary Science,<br>Elocution,<br>English Composition.      |
| III. TERM—Botany,<br>German,<br>Juvenal, or<br>Analytical Chemistry, or<br>Civil Engineering, or<br>English Oratory, | English Versification,<br>Elocution,<br>English Composition. |

#### JUNIOR YEAR

- |                               |                                    |
|-------------------------------|------------------------------------|
| I. TERM—Mechanics,<br>French, | History of Education,<br>Orations, |
| Elocution.                    |                                    |

#### ELECTIVE STUDIES :

<i>Xenophon's Memorabilia,</i>	<i>Surveying,</i>
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*Quintilian,*  
*German,*  
*American Constitutional History, or*  
*American Colonial History,* *Biology,*  
*Organic Analysis,*  
*Parliamentary Law and*  
*Extemporaneous Speaking.*

II. TERM—Physics,  
 Orations,

Electricity and Magnetism,  
 Elocution.

ELECTIVE STUDIES :

*Latin Poets,*  
*French,*  
*German,*  
*Hebrew,*  
*English Bible,*  
*History of Modern Europe, or*  
*History of England.*

*Logic,*  
*Differential Calculus,*  
*Quantitative Analysis,*  
*Animal Histology,*  
*Embryology,*  
*Advanced Composition.*

III. TERM—Astronomy,  
 Orations,

Geology,  
 Elocution.

ELECTIVE STUDIES :

*Plato,*  
*Cicero de Natura Deorum,*  
*French,*  
*English Oratory,*  
*English Bible,*  
*Hebrew,*

*Integral Calculus,*  
*Physics,*  
*Analytical Chemistry or*  
*Applied Chemistry,*  
*Plant Histology,*  
*Civil Engineering,*

*History of England.*

SENIOR YEAR.

I. TERM—Psychology,

American Literature,

Orations.

\*ELECTIVE STUDIES :

*Sophocles,*  
*Tacitus: Annals,*  
*Anglo-Saxon,*

*Geology,*  
*Practical Astronomy,*  
*Mediæval History.*

II. TERM—Ethics,

History of Philosophy,

Orations.

\*ELECTIVE STUDIES :

*Demosthenes de Corona,*  
*Roman Law,*

*Economics,*  
*Comparative Anatomy,*

*Human Osteology.*

III. TERM—Theism,

Greek Literature,

Orations.

\*ELECTIVE STUDIES :

*Seneca,*  
*Shakespeare,*

*Constitutional Law,*  
*Greek Testament.*

\*Seniors may take any of the electives of the Junior year for corresponding terms.

## II. THE PHILOSOPHICAL COURSE.

*Leading to the Degree of Bachelor of Philosophy.*

### A. Latin Division.

#### THE FRESHMAN YEAR.

- |            |   |  |
|------------|---|--|
| I. TERM—   | { Geometry,<br>Algebra,<br>German,<br>Cicero de Senectute and Livy,<br>English Composition. | Hygiene,<br>Elocution,<br>Lectures on the Essay,   |
| II. TERM—  | { Trigonometry,<br>Algebra,<br>German,<br>Livy.   | Derivatives,<br>Elocution,<br>English Composition, |
| III. TERM— | Analytical Geometry,<br>German,<br>Paterculus and Pliny,                                    | Chemistry,<br>Elocution,<br>English Composition,   |

#### SOPHOMORE YEAR.

- |            |   |  |
|------------|---|--|
| I. TERM—   | Chemistry,<br>Rhetoric,<br>Horace,  | Linear Perspective,<br>Elocution,<br>English Composition.    |
| II. TERM—  | Animal Physiology,<br>English Literature,<br>Differential Calculus,   | Sanitary Science,<br>Elocution,<br>English Composition.      |
| III. TERM— | Botany,<br>Analytical Chemistry,<br><i>Juvenal, or Integral Calculus, or<br/>Civil Engineering, or English<br/>Oratory.</i> | English Versification,<br>Elocution.<br>English Composition, |

#### JUNIOR YEAR.

- |           |                                     |                                    |
|-----------|-------------------------------------|------------------------------------|
| I. TERM.— | Mechanics,<br>French,<br>Elocution. | History of Education,<br>Orations, |
|-----------|-------------------------------------|------------------------------------|

#### ELECTIVE STUDIES :

- |   |   |
|---|---|
| <i>Quintilian,<br/>German,<br/>Organic Analysis,<br/>Parliamentary Law and Extem-<br/>poraneous Speaking,</i> | <i>Surveying,<br/>Biology,<br/>American Constitutional His-<br/>tory, or American Colonial<br/>History.</i> |
|---|---|

II. TERM—Physics,  
Orations,

Electricity and Magnetism,  
Elocution.

ELECTIVE STUDIES :

*Latin Poets,*  
*French,*  
*German,*  
*Hebrew,*  
*History of Modern Europe, or*  
*History of England,*

*Logic,*  
*Quantitative Analysis,*  
*Animal Histology,*  
*Embryology,*  
*English Bible,*  
*Advanced Composition.*

III. TERM—Astronomy,  
Orations,

Geology,  
Elocution.

ELECTIVE STUDIES :

*Cicero de Natura Deorum,*  
*French,*  
*English Oratory,*  
*English Bible,*  
*Hebrew,*  
*History of England,*

*Integral Calculus,*  
*Physics,*  
*Analytical Chemistry, or*  
*Applied Chemistry,*  
*Plant Histology,*  
*Civil Engineering.*

SENIOR YEAR.

I. TERM—Psychology,  
Orations.

American Literature,

\*ELECTIVE STUDIES :

*Tacitus: Annals,*  
*Anglo-Saxon,*

*Geology.*

*Practical Astronomy,*  
*Mediæval History,*

II. TERM—Ethics,  
Orations.

History of Philosophy,

\*ELECTIVE STUDIES :

*Economics,*  
*Roman Law,*

*Comparative Anatomy,*  
*Human Osteology.*

III. TERM—Theism,  
Orations.

Greek Literature,

\*ELECTIVE STUDIES :

*Seneca,*

*Shakespeare.*

*Constitutional Law,*



## B. Greek Division.

## FRESHMAN YEAR.

- |            |   |  |
|------------|---|--|
| I. TERM—   | { Geometry,<br>Algebra,<br>German,<br>Lysias' Orations,             | Hygiene,<br>Elocution,<br>English Composition,<br>Lectures on the Essay. |
| II. TERM—  | { Trigonometry,<br>Algebra,<br>German,<br>Herodotus and Thucydides. | Derivatives,<br>Elocution,<br>English Composition,                       |
| III. TERM— | Analytical Geometry,<br>German,<br>Odyssey,                         | Chemistry,<br>Elocution,<br>English Composition.                         |

## SOPHOMORE YEAR.

- |            |   |  |
|------------|---|--|
| I. TERM—   | Chemistry,<br>Rhetoric,<br>Xenophon's Memorabilia,  | Linear Perspective,<br>Elocution,<br>English Composition.    |
| II. TERM—  | Animal Physiology,<br>English Literature,<br>Demosthenes,   | Sanitary Science,<br>Elocution,<br>English Composition.      |
| III. TERM— | Botany,<br><i>Analytical Chemistry, or</i><br><i>English Oratory, or</i><br><i>Civil Engineering,</i> | English Versification,<br>Elocution,<br>English Composition, |

## JUNIOR YEAR.

- |          |                       |  |
|----------|-----------------------|--|
| I. TERM— | Mechanics,<br>French, | History of Education,<br>Orations,<br>Elocution. |
|----------|-----------------------|--|

## ELECTIVE STUDIES:

- |  |   |  |
|--|---|--|
| <i>Sophocles,</i><br><i>German,</i><br><i>Organic Analysis,</i><br><br><i>Parliamentary Law and Extemporaneous Speaking.</i> | <i>Surveying,</i><br><i>Biology,</i><br><i>American Constitutional</i><br><i>History, or</i><br><i>American Colonial History,</i> |  |
| II. TERM—  | Physics,<br>Orations,   | Electricity and Magnetism,<br>Elocution. |

## ELECTIVE STUDIES:

- |  |  |
|--|--|
| <i>Logic,</i><br><i>French,</i><br><i>Hebrew,</i><br><i>German,</i><br><i>English Bible,</i><br><i>History of Modern Europe or History of England.</i> | <i>Differential Calculus,</i><br><i>Quantitative Analysis,</i><br><i>Animal Histology,</i><br><i>Embryology,</i><br><i>Advanced Composition,</i> |
|--|--|

III. TERM—Astronomy,  
Orations,

Geology,  
Elocution.

ELECTIVE STUDIES:

*Plato,*  
*French,*  
*English Oratory,*  
*English Bible,*  
*Hebrew,*  
*History of England,*

*Integral Calculus,*  
*Physics,*  
*Applied Chemistry,*  
*Biology,*  
*Plant Histology,*

*Civil Engineering.*

SENIOR YEAR.

I. TERM—Psychology,  
Orations,

American Literature,

\*ELECTIVE STUDIES:

*Anglo-Saxon,*  
*Mediæval History,*

*Practical Astronomy,*  
*Geology.*

II. TERM—Ethics,  
Orations.

History of Philosophy,

\*ELECTIVE STUDIES:

*History of Modern Europe,*  
*Roman Law,*  
*Demosthenes de Corona,*

*Economics,*  
*Comparative Anatomy,*  
*Human Osteology.*

III. TERM—Theism,

Orations.

Greek Literature.

\*ELECTIVE STUDIES:

*Shakespeare,*

*Constitutional Law,*  
*Greek Testament.*

### III. THE SCIENTIFIC COURSE.

*Leading to the Degree of Bachelor of Science.*

FRESHMAN YEAR.

I. TERM— { *Geometry,*  
              { *Algebra,*  
              *German,*  
              *French or Latin,*

*Hygiene,*  
*Elocution,*  
*English Composition,*  
*Lectures on the Essay,*

*American Literature.*

\* Seniors may take any of the electives of Junior year for corresponding terms.

- |            |   |  |
|------------|---|--|
| II. TERM—  | { Trigonometry,<br>Algebra,<br>German,<br><i>French or Latin,</i>                       | Chemistry,<br>Derivatives,<br>Elocution,<br>English Composition. |
| III. TERM— | Analytical Geometry,<br>German,<br><i>French or Latin,</i><br>Descriptive Anthropology. | Chemistry,<br>Elocution,<br>English Composition,                 |

#### SOPHOMORE YEAR.

- |            |   |  |
|------------|---|--|
| I. TERM—   | Rhetoric,<br>Chemistry,<br>Surveying,   | Linear Perspective,<br>Elocution,<br>English Composition.    |
| II. TERM—  | English Literature,<br>Animal Physiology,<br>Differential Calculus,   | Sanitary Science,<br>Elocution,<br>English Composition.      |
| III. TERM— | Botany,<br><i>Analytical Chemistry, or<br/>Integral Calculus, or<br/>Civil Engineering, or<br/>English Oratory.</i> | English Versification,<br>Elocution,<br>English Composition, |

#### JUNIOR YEAR.

- |          |                         |                                     |
|----------|-------------------------|-------------------------------------|
| I. TERM— | Mechanics,<br>Orations, | History of Education,<br>Elocution. |
|----------|-------------------------|-------------------------------------|

#### ELECTIVE STUDIES :

- |   |  |
|---|--|
| German,<br>French,<br>American Constitutional History,<br>or American Colonial History, | Organic Analysis,<br>Biology,<br>Parliamentary Law and<br>Extemporaneous Speaking. |
| II. TERM—   | Physics,<br>Orations,  |
|   | Electricity and Magnetism,<br>Elocution.   |

#### ELECTIVE STUDIES :

- |   |  |
|---|--|
| Logic,<br>Quantitative Analysis,<br>Animal Histology,<br>Embryology,<br>Advanced Composition, | German,<br>French,<br>Hebrew,<br>English Bible,<br>History of Modern Europe. |
| III. TERM—  | Astronomy,<br>Orations,  |
|   | Geology,<br>Elocution.   |

#### ELECTIVE STUDIES :

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| French,<br>English Oratory,<br>English Bible,<br>Hebrew, | Physics,<br>Applied Chemistry,<br>Plant Histology,<br>English History. |
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## SENIOR YEAR.

I. TERM—Psychology, American Literature,  
Orations.

## \* ELECTIVE STUDIES:

*Anglo-Saxon,* *Geology,*  
*Mediæval History,* *Practical Astronomy.*

II. TERM—Ethics, History of Philosophy,  
Orations.

## \* ELECTIVE STUDIES.

*Economics,* *Comparative Anatomy,*  
*Roman Law,* *Human Osteology.*

III. TERM—Theism, Greek Literature,  
Orations.

## \* ELECTIVE STUDIES.

*Shakespeare,* *Constitutional Law.*

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\* Seniors may take any of the electives of the Junior year for corresponding terms.



## LECTURES.

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The following Courses of Lectures have been established. These lectures are given immediately after the chapel exercises, and are for one hour each.

### SENIOR CLASS.

- I. TERM—Professor Perrine on American Literature.
- II. TERM—The President on Philosophy.
- III. TERM—Professor Hamblin on Greek Literature.

### JUNIOR CLASS.

- I. TERM—The President on the History of Education.
- II. TERM—Professor Owens on Electricity and Magnetism.
- III. TERM—Professor Groff on Geology.

### SOPHOMORE CLASS.

- I. TERM—Professor Bartol on Linear Perspective.
- II. TERM—Professor Groff on Sanitary Science.
- III. TERM—Professor Perrine on English Versification.

### FRESHMAN CLASS.

- I. TERM—Professor Groff on Hygiene, (half term).  
Professor Perrine on the Essay and Oration, (half term).
- II. TERM—Professor Bartol on Derivatives.
- III. TERM—Professor Owens on Chemistry.

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### SPECIAL LECTURES.

- 1. A Course of Lectures will be given yearly on Sociology by Heman Lincoln Wayland, D. D., Editor of the *Examiner*.
- 2. A Course of Lectures will be given yearly on Social Ethics, by George Dana Boardman, D.D., LL.D.

## DEPARTMENT OF INSTRUCTION.

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The method of instruction in the College is partly by text-books and partly by lectures, according to the nature of the subject discussed. Each Professor has his individual mode of imparting knowledge, and this, in the result, is advantageous to the learner. In general, the aim is to discuss each subject as far as possible as the subject matter requires, yet all branches are presented practically, comparatively, and historically, with the view of leading the student to the apprehension of the subject as a whole and in its organic relations, and not to fill the memory with the phraseology of a text-book. The range and character of the instruction can be most accurately gathered from the following account of the different departments.

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### I. ELOCUTION AND ORATORY.

#### INSTRUCTOR PHILLIPS.

The aim is to train the student to speak effectively in the pulpit or upon the platform or at the bar. Each student receives individual attention, during the first half of the course, in Elocution, during the latter half, in Oratory.

The Freshman class has weekly recitations in Elocution during the first term. In the second term, a prize contest in declamation is held and each student receives private drill in preparation for it. During the third term each student is required to present two declamations.

During the first term each member of the Sophomore class receives private drill in preparation for the prize contest in declamation. In the second and third terms each member is required to present one declamation each term.

Each member of the Junior Class pronounces two orations in each term. A prize contest in oratory is held in the third term.

For the Senior Class, the work is optional. A prize is offered for the best oration on commencement day.

Special attention is given to Debate. Every student is urged to take an active part in the work of the Literary Societies. During the Junior year there are three public debates, the last of which is a prize debate.

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### II. THE ENGLISH LANGUAGE AND LITERATURE.

#### PROFESSOR PERRINE.

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#### I. PREPARATORY WORK.

It is assumed that the student has become thoroughly grounded in the essentials of Grammar; that he has mastered the elements of Rhetoric as presented in Williams' Rhetoric, or any other of similar grade; and that he is able



to express his thoughts clearly and concisely. Special attention is also called to the required reading of English classics—a list is given elsewhere—and it is presumed that by reading them, the student has become more or less familiar with the leading forms of literary expression,—the drama, the novel, the essay, the oration. This reading should not be done as a pastime, but under competent direction, with the end in view of making a scholarly acquaintance with the authors read; and it is desired that at least the authors suggested should be read, in order to secure uniformity of preparation among the members of the class.

## II. AIM AND METHODS.

The aim is to cultivate the power and habit of (1) accurate thinking, (2) correct and effective composition, (3) intelligent criticism of leading English authors; and to acquire (4) a scientific knowledge of the Origin and Development of the English Language. The methods are largely those known as Laboratory Methods, and in all cases where possible, the method of independent investigation will be pursued. The course in Rhetoric is after the constructive rather than the critical method, although both kinds will be used as occasion demands. The course in English Literature will pay less attention to the text book than to a critical reading, in the class, of the representative work of each author studied. The student will be urged to know, rather than to know about English Literature; and a few, rather than a great many, authors will be carefully studied.

## III. COURSES.

**I. Rhetoric.**—Genung's Practical Rhetoric and Genung's Rhetorical Analysis. Essays every week based on Lewes' "Principles of Success in Literature." Analysis of themes, criticisms of plans, and exercises in all the forms of Composition discussed, are required. First term, Sophomore year.

**II. English Literature.**—Emery's "Outlines of Notes on English Literature," or Pancoast's Introduction to English Literature. The authors studied and the texts required are Shakespeare's "As You Like It," Milton's "Comus," Pope's "Essay on Criticism," Wordsworth's "Poems selected by Rolfe," Selections from Tennyson. Second term, Sophomore year.

**III. English Oratory.**—A careful study of the English Orators will be made as far as time will permit, with reference to the peculiarities of each period, and especially to those of the present day. Baker's Specimens of Argumentation, Baker's Primer of Argumentation and Bradley's Selected Orations will be pursued; and special work will be required in Quintilian's Institutes and Cicero's Oratore. As this is one of the electives of the third term in the Junior year, there will be opportunity for an extended course. The Library has recently been enriched in this department.

**IV. Anglo-Saxon.**—Bright's Anglo-Saxon Reader. First term, Senior year, for those who have taken courses I and II.

**V. Shakespeare.**—A study of "Mid-Summer Night's Dream," "Hamlet," and "Tempest," to show the development of the poet's mind and a Third term, Senior year, for those who have taken courses I and II.

**VI. The Essay and Oration.**—Lectures are given during the first term to the Freshmen on "The Essay and Oration," as an especial preparation for the practical work of the course, and supplementary to the work assumed to have been done in the preparatory schools.

**VII. English Versification.**—On the successive Thursday mornings of the third term, a course of lectures is given to the Sophomore Class on English Versification as shown in Tennyson.

**VIII. Advanced Composition** for those who have taken courses I. and II. Text-books, Scott and Denney's Paragraph-Writing, Carpenter's Advanced Composition and Lamont's Specimens of Exposition. Second term, Junior year.

**IX. Essays and Orations.**—The Freshmen are required to present two essays in the first term, and three in the second and third terms, respectively; the Sophomores, three essays each term; the Juniors, two orations, and the Seniors one oration each term. The orations presented at the exercises of the Junior Exhibition and Commencement will be received as two of the required orations. Both Essays and Orations are criticised with the author, if necessary; and in all cases an analysis must be presented.

**X. American Literature.**—During the first term, lectures are given to the Seniors on Bryant, Hawthorne, Longfellow, Lowell, Whittier and Holmes, as a preparation for those who desire more extended courses in the Subject.

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## HONOR COURSES IN ENGLISH.

1. Chaucer, his language and thought. A study of Middle English for those who have taken courses I. and II.

2. Milton's "Paradise Lost," R. C. Browne's "Milton," and S. A. Brooke's "Life of Milton," with required Theses, for those who have taken courses I. and II.

3. Skeat's "Specimens of English Literature," 1394-1579, for those who have taken courses I. and II.

4. Skeat's "Piers the Plowman," for those who have taken courses I., II. and IV.

5. The Ormulum and The Ancren Riwe, Sweet's edition, for those who have taken courses I., II. and IV.



### III. THE LATIN LANGUAGE AND LITERATURE.

#### PROFESSOR ROCKWOOD.

There are four terms of required work in this department and seven of elective. Honor courses may be pursued in any term except the first term of the Freshman year.

In the prescribed work, the courses offered and the methods of instruction employed are designed to give the student accuracy and facility in translating Latin into correct, idiomatic English; the ability to read and appreciate the text in the original; a general acquaintance with the growth and development of the language and literature; a knowledge of the leading facts in Roman history; and some degree of familiarity with the life of the people. In the first term, the text is carefully studied, with special reference to forms and constructions, and considerable time is given to written translations and to oral and written composition. It is believed that in this way the faithful student can become thoroughly grounded in the elements of the language and be prepared to pursue his subsequent reading with pleasure and profit. After the first term, historical and literary topics are given greater prominence. Collateral reading is required in Liddell, Merivale and Capes. Wilkins' Primer, supplemented by lectures, is made the basis of an outline course on Roman Literature.

In the elective courses a wide range of reading is offered. While particular lines of study have been marked out, different authors may be substituted in place of those announced in the catalogue. In all cases it is the intention to suit the work to the needs of the class. Provision is made for those who wish by varied reading to gain as large an acquaintance with the literature as possible and also for those who desire to make a specialty of Roman history or philosophy. Students intending to become teachers are aided and directed in their work with that object in view. In the elective courses, less time is devoted to formal recitations than is the case in the prescribed work, while more attention is given to the preparation of papers on assigned topics by members of the class and to lectures and discussions by the instructor. Lectures are given on Roman Antiquities, and these, so far as possible, are illustrated by wall-pictures, plates and photographs.

COURSES: 1-4 required; 5-11 elective.

1. **Cicero:** *De Senectute*. Livy: Book I. Review of special topics in Latin Grammar. Oral and written exercises in Prose Composition, based upon the text. Translation at sight and at hearing. First term, Freshman year.

2. **Livy:** Books XXI and XXII. Latin Prose Composition, based upon the text. Roman History: Special chapters in Liddell. Second term, Freshman year.

3. **Velleius Paterculus:** Roman History. **PLINY:** Selections from the Epistles. Translation at sight. Latin Prose Composition, based upon the text. Roman History: Capes' "Early Empire." Third term, Freshman year.

4. **Horace:** Selections from the Satires, Odes and Epistles. Prosody. Lectures on Roman life in the time of Augustus. Historical outlines of the



Latin Language and Literature : Wilkins' Primer ; lectures. First term, Sophomore year.

5. **Juvenal** : Selected Satires. Translation at sight. Roman History : Capes and Merivale. Roman Antiquities : Lectures. Third term, Sophomore year.

6. **Quintilian** : Books X and XII. Selections from Book I, at sight. Roman Literature : Readings from Cruttwell and Teuffel. First term, Junior year.

7. **Latin Poets** : Selections from Catullus, Lucretius, Tibullus, Propertius, Ovid and Lucan. Lectures and collateral reading upon topics suggested by the authors studied. Second term, Junior year.

8. **Cicero** : *De Natura Deorum*. The object of this course is to give the student an outline of the Stoic, Epicurean and Academic systems of philosophy. Members of the class are required to prepare papers upon special topics. Third term, Junior year.

9. **Tacitus** : *Agricola* ; *Germania* ; Annals. Large amounts are read at sight. Special topics in Roman History are assigned for study. First term, Senior year.

10. **Roman Law** : Instruction is given by text-book (Morey's) and by lectures. Students are required to read on assigned topics and to make reports upon the same to the class. Second term, Senior year.

11. **Seneca** : Selections from his Moral Essays. Special study of his life, times and Philosophy. Third term, Senior year.

#### HONOR COURSES IN LATIN.

1. **Ovid** : *Metamorphoses* ; *Tristia* ; *Fasti*.
2. **Cicero** : Letters ; *De Officiis* ; *Brutus*.
3. **Tacitus** : Histories. Suetonius : *De Vita Cæsarum*.
4. **Plautus and Terence** : Selected plays. Allen's "Remnants of Early Latin." Wordsworth's "Fragments and Specimens of Early Latin."
5. **Tertullian** : The Apology. LATIN HYMNS.

The following books are used . Rockwood's Cicero *de Senectute* and *Velleius Paterculus* ; Lord's Livy ; Hopkins' *Agricola* and *Germania* of Tacitus ; *Platner's* Pliny ; Lincoln's Horace ; Lindsay's Juvenal ; Frieze's Quintilian ; Crowell's Selections from Latin Poets ; Stickney's Cicero *de Natura Deorum* ; Allen's Tacitus' Annals ; Morey's Roman Law ; Hurst and Whiting's Seneca ; Allen and Greenough's Ovid ; Holden's Cicero *de Officiis* ; Fowler's Plautus ; West's Terence ; Kellogg's Cicero's *Brutus* ; Tyler's Histories of Tacitus ; Peck's Suetonius ; March's Tertullian and Latin Hymns. Allen and Greenough's and Harkness' Latin Grammars ; Harpers' Latin Dictionary.

## IV. THE GREEK LANGUAGE AND LITERATURE.

PROFESSOR HAMBLIN.

### I. PREPARATION.

It is expected that the student in his preparatory course has mastered the Attic forms the most common principles of syntax, the "principal parts" of the most common irregular verbs, and the correct writing of simple Greek sentences. He ought also to be able to read the Greek text fluently and to understand short Greek sentences when spoken to him. To facilitate this end, it is recommended that the Greek text be read orally from the beginning of the study of the language, and that composition in Greek be continued through the whole of the preparatory course. Much help may be obtained from "Natural" and "Inductive" methods. While a definite amount of the *Anabasis* and *Iliad* is elsewhere stated as required, yet quality of work is preferred to quantity. It is desired that the preparatory course be made, as far as possible, a mastery of the principles of the *language*, that the literature and civilization of the Greeks may occupy the larger part of the student's attention in his subsequent study.

### II. AIM AND METHODS.

The first end sought is an accurate and thorough knowledge of the language, as a means of discipline to the mind and as the key to the literature. The first part of the Freshman year is devoted largely to grammatical topics in connection with the author read. But the student is encouraged to gather facts and to formulate principles from the text rather than to memorize the standard grammars. Translation in idiomatic English is required, yet as near as possible to the literal of the original. Translation at sight and at hearing is practiced during the whole course at such times as the needs of various classes seem to require. All possible inducements are offered to make the student self-reliant and independent in his work.

The literature, history, social and political ideas of the Greeks, their position in ancient civilization and relation to modern life and thought, are topics which occupy a very important part of the work in this department. In this way, it is sought to inspire a living interest in the civilization of ancient Greece, to show the essential unity of history, and to encourage the study of ancient life for the lessons which it has for the present time.

### III. COURSES.

1. *Lysias*.—Selected orations are read almost exclusively as a study of *language*. Review of the more difficult parts of Greek Grammar. Special attention to the translation and syntax of the Greek verb. Weekly exercises in Greek Prose Composition. Occasional written translations and examinations. First term, Freshman year.

2. *Herodotus and Thucydides*.—Selected portions of one or both authors. Peculiarities of dialect of Herodotus. Formation and derivation of words. Literal translation. Reading of assigned portions of standard Greek histories. Second term, Freshman year.



3. **Homer.**—Odyssey, Books 1, 2, 6-8. Dialect, metre, syntax, style. Topics for investigation assigned to members of the class. The object sought is to help the student to understand and to appreciate, rather than to criticise, the Homeric Poems. Third term, Freshman year.

4. **Xenophon.**—Selected portions of the Memorabilia. The life of Socrates. For students in the Philosophical course. First term, Sophomore year, also an elective for the Juniors during the first term.

5. **Demosthenes.**—Olynthiacs and Philippics. History and Politics of the Macedonian Period. Lectures on the Greek poets. Second term, Sophomore year.

6. **The Greek Drama.**—Sophocles or Euripides. For the present, the Oedipus Tyrannus is read. The origin and development of the drama, the Greek theatre, and the metres of the drama. First term, Senior year.

7. **Plato.**—The Apology and Crito. Philosophy and religious ideas of Socrates. The Sophists. Topics for investigation in standard authors. Extracts from the Memorabilia at sight. Third term, Junior year.

8. **Demosthenes.**—De Corona. Designed to supplement course 5 and to make a critical study of the oratory of Demosthenes from both a literary and political point of view. Second term, Senior year.

9. **New Testament, Greek. (A).**—The Gospel according to Luke, with sight reading of the Gospel according to Matthew. A course in rapid reading designed to familiarize the student with the style, so that he may continue to read the Greek New Testament throughout his College course. Second and third terms, Freshman year, one hour a week.

10. **New Testament, Greek. (B).**—The Acts of the Apostles and the Epistles of John. Third term, Senior year.

#### IV. HONOR COURSES IN GREEK.

11. **XENOPHON.**—The symposium. A study of social life in Greece. Sophomores and Freshmen. Winter term. One hour a week.

12. **THUCYDIDES.**—Selections. Sophomores and Freshmen. Spring term. One hour a week.

13. **ARISTOPHANES.**—The Clouds. Seniors and Juniors. Winter term. One hour a week.

14. **PLATO.**—The Phædo.—Intended as an introduction to a study of Greek Philosophy.—Seniors. Fall term. One hour a week.

#### V. TEXT BOOKS.

Stevens' Select Orations of Lysias; Mather's Selections from Herodotus and Thucydides; Merry's Odyssey, Books 1-12; Seymour's Introduction to the Language and Verse of Homer; Tyler's Olynthiacs and Philippics; White's Oedipus Tyrannus; Dyer's Plato's Apology and Crito; Winans' Memorabilia; D'Ooge's De Corona; Humphrey's Clouds; Wagner's Phædo; Scrivener's or Wescott and Hort's Greek Testament; Goodwin's Greek Grammar; Goodwin's Greek Moods and Tenses; Liddell and Scott's Greek Lexicon, Seventh Edition; Oman's History of Greece; Allinson's Greek Prose Composition.



## V. THE HEBREW LANGUAGE.

PROFESSOR HULLEY.

It is the aim of this course to give the student a working knowledge of the Hebrew language.

1. **Elements of Hebrew.**—Inductive Method, Alphabet, Grammar, Forms, Vocabulary, Translation and Transliteration of Hebrew into English and English into Hebrew, Accents and Signs. Harper's Method and Manual.

2. **Advanced Hebrew.**—Word Lists, Rapid Reading, Sight Translation, Elements of Advanced Grammar, Syntax and Principles of Textual Criticism, Interpretation and Exegesis.

3. **Cognates.**—Instruction will be offered at any time in the elements of Arabic, Aramaic, Syriac, Assyrian, Ethiopic and Talmudic Hebrew.

Two terms, Seniors and Juniors.

## VI. MODERN LANGUAGES.

PROFESSOR LOOMIS.

In the Classical Course there are, as required studies, daily recitations in both French and German for a period of thirteen weeks. Attention is given, first, to the elements of Grammar; afterwards, to the critical reading of some of the masterpieces of each language. The method of instruction is inductive as well as deductive, and as large a proportion of attention as can profitably be so devoted within the limitations of a college course is aimed to be given in both languages to practical exercises. These embrace an extended course in French and German Composition.

In both divisions of the Philosophical Course, the study of German is continued as a daily recitation throughout the Freshman year. The students in the Scientific Course likewise take French as a daily recitation throughout the Freshman year. Other divisions of the Scientific Course recite French with Classical students.

French and German may each, as optional studies, continue to be pursued by all students in a daily recitation for two additional terms. The following are the details of courses offered:

### GERMAN.

1. **Required, in Classical Course.**—Whitney's Brief German Grammar, Translation of German Exercises into English. Review of Grammar. Translation of English Exercises into German. Irregular Verbs. Dictation Exercises. Lyrics and Prose Selections memorized. Joynes' Reader, 100 pages. *Five hours.*

2. **Optional, for all courses.**—Joynes' Reader, completed, 50 pages. Boisen's Prose Reader, 180 pages. Practice in writing the German Script. Prose Composition. *Five hours.*

3. **Optional, for all courses.**—Boisen's Reader, completed, 35 pages. Roquette's Der Gefrorene Kuss, 53 pages. Auerbach's Tales from the Black Forest, 83 pages. Keller's Dietegen, 75 pages. Dahn's Felicitas, 142 pages. Harris' Prose Composition—one selection out of every four to the end of the book, being about 20 pages of English text. *Five hours.*

## FRENCH.

1. **Required**, for Classical and Philosophical Courses.—French Pronunciation. Whitney's Brief Grammar, with Translation of French Exercises into English. Review of the Grammar. Translation of English Exercises into French. Irregular Verbs. Selections in Prose and Verse memorized. Whitney's Introductory Reader, 164 pages. *Five hours.*

2. **Optional**, for all courses—Fontaine's *Historiettes Modernes*, vol. 1, 116 pages; vol. 2, 137 pages. Selections from O'Connor's *Choix de Contes Contemporains*, 56 pages. French Composition. *Five hours.*

3. **Optional**, for all courses.—Mannechet and Pylodet's *Théâtre Français Classique*,—the portion relating to Corneille, 39 pages. Corneille's *Le Cid*; Selections from LaFontaine, 79 Fables. Selections from the comedies of Labiche and Martin, 78 pages. Selections from Prosper Mérimée, 92 pages. Selections from Ludovic Halévy, 77 pages. The Laws of French Prosody. French Idioms studied in 264 selected sentences. Stewart's *Prose Composition*, 21 selections. *Five hours.*

## VII. MATHEMATICS AND ASTRONOMY.

## PROFESSOR BARTOL.

1. **Solid Geometry**.—The course includes the study of lines and planes in space, solids with plane surfaces, the spherical triangle, and common forms of solids with curved surfaces, such as the cone, the cylinder, and the sphere.

The student is required to demonstrate the theorems of the text-book. But a prominent part of the course is the original demonstration of additional theorems, and applications in the solution of numerical problems.

2. **Trigonometry**.—The course includes Plane Trigonometry, with applications to problems in mensuration and surveying, and Spherical Trigonometry, with some applications to problems in nautical astronomy.

Functions of the angles are considered as ratios. The method of representing these functions by lines, and the use of these lines in investigating the relations of the functions, is discussed at some length. Time is given to the numerical illustration of principles, for the purpose of making sure that the meaning and use of formulæ, demonstrated and learned, is thoroughly understood.

3. **Higher Algebra**.—The topics discussed are ratio and proportion, variation, progressions, permutations and combinations, binomial theorem, undetermined coefficients, summation of series, logarithms, general theory of equations, and the solution of higher numerical equations. Some time is given to the graphical representation of the relations of quantities. As a means to clear and concise proofs of the binomial theorem, logarithmic series, and exponential series, the elementary theory of derivatives is introduced in a course of lectures.

4. **Analytical Geometry**.—The student will be taken through the elementary properties of the right line and the conic sections. There will be, in addi-



tion, a brief discussion of the general equation of the second degree, some important higher plane curves, and loci in space. This course is intended to give a clear conception of the method of Cartesian Analysis, rather than an extensive knowledge of its results.

5. **Differential Calculus.**—This course proceeds throughout upon the method of infinitesimals, but for purposes of comparison, the student is instructed also in the method of limits. The course includes the differentiation of algebraic and transcendental functions, the development of functions into series, evaluation of undetermined forms, determination of maxima and minima, and applications to the theory of curves. The rules and principles are illustrated and enforced by numerous examples of a practical character.

6. **Integral Calculus.**—The course includes the methods of integration by parts, by substitution and rationalization, by successive reductions, and by series. There are some applications of integration to plane curves, to plane areas, and to certain volumes. The utility of this analysis is exemplified by the solution of a variety of problems in mechanics and astronomy.

7. **Astronomy.**—The required course is completed with the subject of General Astronomy, but the aim is to treat astronomy not merely as an application of mathematics, but as a science which forms an essential part of a finished education. This subject is taught by text-book, with illustrations in the observatory, and some lectures. There is free use by the student of the ten-inch equatorial telescope, to verify the statements of descriptive astronomy.

8. **Practical Astronomy.**—Observations are made for time and to determine the errors of the transit instrument. The use of the micrometer is taught and the value of one revolution of its screw is determined experimentally. The adjustments of the equatorial for correct position are made. Observations are made for azimuth, and for latitude and longitude. The student is required to make all such astronomical observations as are requisite in a practical acquaintance with the subject of geodetic surveying, and to reduce his notes in the use of the nautical almanac and methods of reduction not involving the calculus. Time is given to calculations of eclipses and star occultations.

9. **Surveying.**—Fourteen weeks are given to this subject. In chain surveying, full directions are given for measuring and ranging out lines, for making and reducing field notes, and for plotting. In compass and transit surveying, a careful study of the necessary instruments is made. The student is taught their adjustments and the best methods of reducing their errors. He is instructed in the various ways of obtaining the proper data in the field, for his work, and in the best tests of the accuracy of his field notes. He is made acquainted with the variations of the compass, and such tables and methods are furnished him as will enable him to establish, with some precision, his geographical meridian, and undertake the retracing of old lines. The system practiced by the government in the survey of public lands is fully set forth. Under mine surveying, in connection with those things peculiar to this branch, directions are also given for running contours and sketching topography. Some observations are made for latitude and time.—INSTRUCTOR STEWART.

10. **City Surveying and Civil Engineering.**—Every member of the class is carefully trained in the use and adjustments of the compass, level, transit



solar-attachment and all other appliances belonging to the equipment of a civil engineer. Town sites are located and plotted; permanent reference points, such as monuments and bench-marks are established, grades and sewers are determined, and property lines staked out. Thorough instruction is given in the theory of railroad curves, switches and turn-outs. In addition to the class-room work, a corps is organized, which makes a preliminary survey and locates a cross-country railroad. For this, the grade and ditch stakes are set and the curves determined. The members of the corps change position so that each member becomes familiar with the various instruments. Specifications are drawn up and estimates made of the line surveyed.—INSTRUCTOR STEWART.

The following books are used: Bartol's Geometry, Well's University Algebra, Wood's Plane and Spherical Trigonometry, Nichol's Analytical Geometry, Hardy's Calculus, Carhart's Plane Surveying, Olmsted's College Astronomy, Loomis' Practical Astronomy.

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## VIII. CHEMISTRY AND PHYSICS.

### PROFESSOR OWENS.

**Physics.**—The course in Physics extends through the Junior year, supplemented by a course of lectures on Electricity and Magnetism. The first term is devoted to the study of the mechanics of solids, liquids, and gases; during the second term, sound, light and heat are taken up, while the third term is devoted to Magnetism and Electricity. This latter course is optional in the Classical and required in the Philosophical and Scientific courses. In the class-room, the text-book and lecture methods are combined, each point being illustrated as far as possible by experiment.

Students who desire, may take an experimental course in the Laboratory, devoting about five hours a week to laboratory work. Such work is taken in addition to the required class room work, and if a grade of nine or more is attained, the work is credited as an "Honor Study."

Students who have completed the general course in Physics and the experimental course, may take up special lines of investigation under the direction of the Professor.

**Descriptive Chemistry** is taught by text-book and lectures. The object of the course is to give the student a general knowledge of the most common elements, their sources, use, compounds and behavior towards other elements and compounds, and to drill the student in writing formulæ and solving chemical equations. To accomplish this, each student will be expected to spend at least five hours each week in the Laboratory, studying the characteristics and reactions of the elements and their compounds, and performing the more simple experiments outlined in the text and lectures. Notes will be kept by each student, describing the experiment and giving the equation which represents the reactions that take place. The Professor will, from time to time, examine the note-books, and make such suggestions as he thinks helpful.

In order to give those who have not studied Chemistry in their preparatory

course a general idea of the aims and scope of the subject, and the methods by which it is studied, a course of experimental lectures is delivered to the Freshmen during the third term.

Analytical Chemistry is open to those only who have completed and been examined in Descriptive Chemistry. In this course, students examine a number of known solid and liquid substances, noting their various reactions. They are then given unknown substances, several in one mixture, which they are required to determine. The course is completed when fifty unknown mixtures have been determined and correctly reported.

Quantitative Analysis comprises those determinations which will be most useful to the student of general culture. It also offers to the specialist an opportunity to become acquainted with the methods of separation and manipulation. It is open to those who have taken General and Analytical Chemistry.

Students wishing to follow special lines of investigation, can do so under the direction of the Professor.

Organic Chemistry can be elected by those who have completed the Analytical Chemistry. The aim in this course is to acquaint the student with the methods by which the typical and most useful organic compounds are built up and how their structural formulæ are determined.

Applied Chemistry, covering some topics in Medical Chemistry and Toxicology, Soil Analysis, Water Analysis, Organic Analysis and Analysis of Iron Ores, can be pursued by those who have completed the Analytical course.

The Chemical and Physical Society holds meetings bi-weekly to discuss questions in Chemistry and Physics.

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## IX. ORGANIC SCIENCE.

### PROFESSOR GROFF.

In this department, it is the constant aim to teach students how to interpret nature. The student is guided in his studies by lectures and laboratory manuals.

In courses, 3, 4, 5, 6, 8, 9, and 11 the student should reserve on his program about ten hours each week for laboratory exercises. A small fee is charged in all the laboratory courses.

Medical students who desire to complete their professional studies in three years, should take courses one to nine.

1. **Hygiene.**—A course of six lectures on the Elements of Personal Hygiene. First term. Freshman year. Required.

2. **Animal Physiology.**—The principles of Human and Comparative Physiology, taught by lectures and illustrated by a life-sized French manikin, skeletons, and charts. Second term. Sophomore year. Five hours.

3. **Normal Histology and Embryology.** Text-book recitations, lectures and laboratory work. This course must be preceded by courses 2, 5 and 6. Junior year. Elective.



4. **Human Osteology and Comparative Anatomy.**—Text-book recitations, lectures and laboratory work. This course must be preceded by courses 2, 5 and 6. Junior year. Elective.

5. **Biology.**—Recitations, lectures, and laboratory work. This course must be preceded by courses 2 and 8. Elective. Junior year.

6. **Zoölogy.**—Recitations, lectures and laboratory work. This course must be preceded by courses 2 and 8. Elective. Junior year.

7. **Sanitary Science.**—A course of ten lectures on the Elements of Sanitary Science. Sophomore year.

8. **Botany.**—Recitations, lectures and laboratory work. Sophomore year. Third term.

9. **Plant Histology.**—Lectures, recitations and laboratory work. Junior year. Elective. Course 8 must precede this course.

10. **Dynamical Geology.**—A course of twelve lectures. Required. Third term. Junior year. 1 hour.

11. **Mineralogy and Geology.**—Recitations, lectures and laboratory work. The first portion of the term will be devoted to Mineralogy, the second portion to Geology. Elective. First term. Senior year.

The NATURAL HISTORY SOCIETY has been formed to encourage original work in the organic sciences. It is open to all professors and students of the college, and holds meetings bi-weekly.

## X. ECONOMICS AND POLITICAL SCIENCE.

I. **Economics** is considered as the science of exchanges, and is followed into its practical applications in manufacturing, banking, national credit and international commerce, with illustrations from well-known facts and current events. It is insisted that any stable system of economy must find its foundation in ethical principles.

There will be held daily recitations from Ely's outlines of Economics and Marshall's Principles of Economics supplemented by lectures and by debates on the part of the class.—PROFESSOR FERRINE.

II. **American Constitutional Law** is offered as an elective to those members of the Senior Class who have taken American Constitutional History. The work consists, not so much in a study of the Constitution itself, as in a study of the law that has grown out of the Constitution during a century of use. Cooley's "Constitutional Law," is made the basis of work in the class-room; while special topics are assigned for individual study and subsequent discussion in the class-room.

Reference is made to Hare's "American Constitutional Law," Baker's "Annotated Constitution of the United States," Cooley's "Constitutional Limitations," and "Constitutional History as seen in American Law."—PROFESSOR HAMBLIN.

III. **Roman Law** may be taken as an elective in the second term of the Senior year. The subject is treated historically. Morey's Roman Law forms



the basis of the work. The text-book is supplemented by lectures and collateral reading.—PROFESSOR ROCKWOOD.

IV. **Sociology.** An honor course in Sociology is offered by Dr. Wayland. This will consist (1) of a report of the lectures of Dr. Wayland; (2) of the reading some work on Sociology with analysis of its subject matter; (3) of a thesis of not less than a thousand words based on field-work done by the student.

## XI. MEDIÆVAL AND MODERN HISTORY.

PROFESSOR HULLEY.

A somewhat extensive acquaintance with Ancient History is a requirement for admission and courses in the History of Ancient Greece and Rome are given in connection with the study of the classical literatures. The historical course in College is devoted, first, to the History of Mediæval Europe, with a view to ascertaining the principles which have governed its social and political development; secondly, to the History of Modern Nations, with the object of showing how have been evolved the form and character of its States as they now exist. The method of study is a varied one, being by text-book, lectures and topics assigned for individual research.

The following courses are offered:

1. Mediæval Europe. (1) Subjects:—The Germanic Invasions, Roman Christianity, Rise of Mohammedanism, German Ideas of Law, The Age of Charlemagne, Foundations of Mediæval Europe, Feudal System, Rise of the Papacy, its Degredation and Restoration, the Struggle between the Empire and the Papacy, Domination of the Papacy, Society and Intellectual Life of the Middle Ages. (2) Texts:—The class will use Emerton's "Introduction to the Middle Age" and Emerton's "Mediæval Europe;" and will also read extensively in Milman's "Latin Christianity," Bryce's "Holy Roman Empire," Duruy's "Middle Ages," and in Neander, Kurtz, Schaff, Menzel, Kohlrausch and others.

Senior Elective. First term. Five hours.

2. Modern Europe. (1) Subjects:—Decline of Feudalism, Revival of Learning, Rise of Modern Institutions, Protestant Reformation, Catholic Reaction in the Inquisition, Jesuit Order, and Council of Trent, Thirty Years' War, Age of Louis, Rise of the Dutch Republic, French Revolution, Unification of Italy, Recent Revolutions in Italy, New German Empire, Republicanism in France. This study will begin where Emerton's Mediæval Europe closes, and will follow the same method in the study of modern development.

Junior and Senior Elective. Second term. Five hours. Course two alternates annually with course three.

3. History of England. Subjects:—Invasions and Early Settlements, Saxon Civilization, Norman Conquest, Parliamentary Organization, Constitutional Beginnings, Tudor Period, Struggle between King and Parliament, The Protectorate Restoration and Revolution, Whig Aristocracy, Modern England.

(2) Texts:—Constitutional Histories of Stubbs, Taylor, and Hallam; Special Histories of Gardiner, Hale, Creighton, Morris, Freeman, Seebohm, and McCarthy; and General Histories of Green and Montgomery.

Junior and Senior Elective. Second term. Five hours. Course three alternates annually with course two.

4. American Colonial History. Subjects:—Discovery—Settlement—Expansion—Independence. Colonial charters, conventions, government, and social conditions; Spanish, French, and English communities; Conquest of Mexico and Peru; The making of New England; Relations to the Old World; Causes, progress, and results of Revolutionary War.

Junior and Senior Elective. First term. Five hours. Course four alternates annually with course five.

5. Constitutional History of the United States. Subjects:—Formation, Analysis, and Interpretation of the Constitution. Its interpretation as expressed in the following subjects: Hamilton's Bank; Assumption of Debts; Alien and Sedition Laws; Kentucky and Virginia Resolutions; Louisiana Purchase; Embargo and Non-Intercourse; Burr's Treason; War of 1812; Hartford Convention; Missouri Compromise; Tariff Legislation; Indian Affairs; Jackson's Bank Veto; Nullification; Currency Measures; Annexation of Texas; Slavery in the Territories; War of Secession; Reconstruction.

Texts:—VonHolst, Hildreth, Schouler, McMaster, Fiske, Hart, Wilson, Johnston, Bryce, American Statesman Series, Annals of Congress, Life and Works of Washington, Hamilton, Jefferson, Adams, Clay, Webster, Calhoun, Seward, etc.

Junior and Senior Elective. Fall term. Five hours. Course five alternates with course four.

6. Parliamentary Law and Extemporaneous speaking. The aim of this course will be:—(1) to familiarize the class with parliamentary usage in theory and practice; (2) to develop ability in extemporaneous speaking; (3) to pursue a definite course of historical study as a basis for the work.

Junior and Senior Elective. Fall term. Five hours.

## XII. BIBLICAL LITERATURE.

SUPPLIED BY PROFESSOR HULLEY.

The aim of this department is to impart (1) correct methods of Bible study; and (2) an appreciation of the forms and subject-matter of Biblical Literature. The language will be studied inductively, by the aid of Harper's "Introductory Methods and Manual," and Grammar. The English courses will be supplemented by a series of lectures extending throughout the year.

The topics to be treated are as follows:

**Lectures:** The Bible as a Classic; the Bible as a Library; the Bible in its Formation; its influence on early civilization; the civilizations imbedded in it; its essential ideas and their development; its institutions; its literary forms; the names, order, number, date, destination, purpose, plan, style, contents, teaching and history of selected books; methods of Bible study; historical methods of interpretation; spirit, motive, present condition and results of Bible study; the distinctive purpose of the Bible; its Divine Origin and



Mission ; and the Bible as central and vital in English History , Literature and Civilization.

The Courses in English Bible are :

1. **Wisdom Literature.**—The "Wisdom Books" will be analyzed, their contents studied, and their subjects classified.
2. **Psalmody.**—This study includes : The periods and development of Psalmody ; the growth of the Psalter ; the special religious revivals producing it ; its divisions, authors, superscriptions, versions, contents, and the order of the Psalms ; the historical occasion of their composition ; their various literary forms ; their editorial, musical and liturgical elements, and the following group: The Davidic, Korahite, Asaphic, Maccabæan, Pilgrim, Hallelujah, Coronation, Elegiac, Imprecatory, Alphabetic ; and the Psalms of the Exile, the Restoration and the Later Temple. Winter term, Seniors and Juniors.
3. **The Founding of the Church.**—The text will be the Acts of the Apostles. The subjects will be the Church's inception, formal organization, initial activity, internal life, missionary enterprise, and the establishment of churches.
4. **The Pauline Epistles.**—The historical origin, plan, purpose, materials and characteristics of each ; their chronological order ; the development and progress of their teachings ; and the life, experiences, and views of their authors will be studied. Seniors and Juniors.
5. **Prophecy.**—A course in Prophecy will be offered at option of the class as a substitute for the New Testament courses. It will include the historical periods of prophecy ; the literature, ideas and men of each period ; the work of the prophets as statesmen, reformers, theologians, ethical teachers and preachers, and the contribution of each period to the Messianic Hope.

### XIII. LOGIC AND ANTHROPOLOGY.

PROFESSOR MARTIN.

1. A course in elementary Logic, optional to Juniors, is offered in the second term. This course is designed to utilize (1) the valuable discipline inherent in the study of the science of thought, (2) the practical application of its principles in the analysis of arguments and the conduct of the search for truth, (3) the knowledge of the historical development of the science in the hands of its great masters, and (4) its valuable aid as preparatory to the study of Philosophy and Ethics.

The manual of Professor Minto will be supplemented by readings in the standard authors, with constant praxis in the detection of fallacious arguments.

2. An advanced course in the history and criticism of Logical Theories, ancient and modern, is offered as an honor study, in the third term of the Junior year, to such students as shall have taken course 1.

3. A course in Descriptive Anthropology is given to the Scientific section of the Freshman class during the third term. It is designed to prepare the student for the appreciative study of Ethnology and Languages, of Archaeology



and History. Tylor's text-book serves as the basis of study, with readings and discussions on the chief authorities and current publications.

4. An honor course in Anthropology with special reference to the origin and development of Art, Science and Religion, is offered to Juniors and Seniors in the first term.

5. The instruction in American Literature given to the Scientific Freshmen in the first term aims to acquaint the pupil with the masterpieces of American authorship in a general survey, and is preparatory to the more detailed and critical study of selected authors offered in the Senior year. The text-book of Hawthorne and Lemmon serves as a critical, biographical and historical guide to the student.

## XIV. MENTAL AND MORAL PHILOSOPHY.

### THE PRESIDENT.

The studies in this department are pursued in the Senior year and embrace Psychology, Philosophy, Ethics, and Evidences of Christianity.

Daily recitations are had in Psychology during the first term of the Senior year. Sully's Psychology is used as a guide to the student in interpreting the facts of his own consciousness. All the definitions are carefully tested, and informal expository lectures are given upon the topics discussed in the text-books. Students are required to pursue an extensive course of collateral reading in works which can be obtained in the Library of the College. Oral discussions on assigned topics are held, in which every member of the class is required to take part. Frequent written examinations and theses on assigned subjects test and deepen the student's knowledge. An honor course in Hamilton's "Lectures on Metaphysics," is offered to the Seniors during the Fall term.

The Seniors, in the second term, pursue the study of Ethics, inquiring into the fundamental principles of the science. Calderwood's "Moral Philosophy" is used as the basis of instruction. The student reads and reports on designated portions of the work of Plato, Aristotle, Kant, Butler, Janet, Wuttke, Strong, and other leading authors in Ethics and the Philosophy of Religion.

A course in the History and Principles of Philosophy is given the Seniors in the second term. This course includes a general acquaintance with the life and teachings of Socrates, Plato, Aristotle, Descartes, Lockes, Leibnitz and Kant.

An honor course in the Philosophy of Education, is offered for the Winter term, and in Bowen's "History of Modern Philosophy" for the Spring term.

In the third term of the Senior year, a course is given in the Philosophy of Religion, covering those topics that are at present occupying the attention of thoughtful men.

## SCHEDULE FOR 1895-'96.

### I. Psychology. Sully.

Reading in Ladd's Physiological Psychology, James' Psychology, Porter's Human Intellect, and other authorities.

Seniors. First term. Five hours.

2. Honor course. Hamilton's Metaphysics.  
Seniors. First term.
3. History of Education. Lectures.  
Juniors. First term. One hour.
4. Ethics. Calderwood. Lectures and Readings.  
Seniors. Second term. Four hours.
5. History of Philosophy.  
Lectures, Theses, and Readings.  
Seniors. Second term. Two hours.
6. Honor course. Philosophy of Education. Rosenkranz.  
Seniors. Second term.
7. Honor course. Physiological Psychology. Ladd.  
Seniors. Second term.
8. Philosophy of Religion. Diman's Theistic Argument, and Lectures.  
Seniors. Third term. Five hours.
9. Honor course. Bowen's Modern Philosophy.  
Seniors. Third term.
10. Honor course. Grundzüge der Psychologie. Lotze.  
Seniors. Third term.



## LIBRARIES AND APPARATUS.

### THE LIBRARIES AND READING-ROOM.

*Librarian*: PROFESSOR WILLIAM E. MARTIN, A. M.

*Assistant*: FRANK M. SIMPSON.

**The College Library.**—The general library contains upwards of 13,250 volumes. A reading-room is connected with it. During term-time, both are open forenoon, afternoon and evening of each day, Sundays and holidays excepted, and both are maintained at the expense of the University without extra charge to students. Students are allowed to draw two books at one time and to retain them for two weeks.

The library has now entirely outgrown its former accommodations, but the completion of the new Laboratory building has left vacant the large adjoining room, which is now used for library purposes.

The library is regarded as a working laboratory for all departments of instruction, students being constantly cited to it in class-room work. In this way while answering the purpose of general culture, it supplements, in great measure, the monographic treatment of text-book study, and the student is trained under competent guidance to become an investigator. The resulting practical acquaintance with books and bibliography proves a valuable part of liberal education. That the demands thus made upon it may be met, it is the purpose to have the library so systematized that all its resources on any given subject shall be at once available.

Six hundred and twenty volumes have been added during the year, partly by purchase, but chiefly by gift from the following sources:

The American Baptist Publication Society, the Estate of W. H. Backus, M. D., Mrs. J. Thompson Baker, Mrs. J. C. Bucher, The Class of 1896, T. G. Evans, Wm. Frear, Ph. D., T. A. Gill, D. D., U. S. N., I. Baker Greene, W. C. Gretzinger, Ph. B., Prof. G. G. Groff, M. D., LL. D., Prof. T. F. Hamblin, A. M., Pres. J. H. Harris, LL. D., Herbert F. Harris, Miss Mary B. Harris, A. B., Wm. L. Harris, Harvard University, Pres. D. J. Hill, LL. D., Mrs. A. M. Horton, Rev. T. R. Howlett, Prof. Lincoln Hulley, A. M., William Jones, Esq., Rev. J. T. Judd, Mrs. A. A. Leiser, Mrs. S. J. Lewis, W. E. Lincoln, Esq., Mrs. Emma Matlack, Rev. S. H. McDonald, Mrs. Mary Meixell, Howard Miller, Ph. D., J. R. Morris, Rudolph Myers, M. D., The Mission Band of the University, Capt. J. A. Owens, Prof. W. G. Owens, A. M., the family of the late J. G. Owens, A. M., The Pennsylvania Rail Road Co., Prof. E. Perrine, Litt. D., Prof. F. E. Rockwood, A. M., Miss E. Rogers, Mrs. E. Shorkley, The University of Chicago, Mrs. W. C. Walls, William Jewell College, Mrs. Martha M. Wolfe, The Smithsonian Institution, and various Government Departments at Washington, D. C.



The Reading-Room, in connection with the general library, is maintained at the expense of the University. By purchase or by contribution, its tables are supplied with the current numbers of between seventy and eighty publications, including the leading scientific, literary and philological reviews, and magazines and papers of the day.

On shelves adjoining the tables of the reading-room are placed encyclopedias, dictionaries, maps, gazetteers, indices and complete sets of the leading reviews.

## THE MUSEUM.

The College possesses a good collection of illustrative materials in Botany, Mineralogy, Geology and Zoölogy. The specimens are distributed under these classifications and those of Archæology as follows :

Botany.....	1,350
Mineralogy.....	3,000
Geology.....	1,575
Zoölogy.....	4,450
Archæology.....	525
Total.....	10,900

Additions to the Museum will always be thankfully received, especially of objects which can be used in class-room.

Among these may be mentioned: Zoölogical specimens, especially marine and fresh-water forms of life; insects; skeletons of vertebrated animals, birds and mammals; botanical specimens; crystallized minerals; American and especially Pennsylvania rocks.

Contributions have been received for the Museum during the past year, from Nelson F. Davis, of Bridgeton, N. J.; J. D. MacNab, Prof. George G. Groff; Rev. C. T. Hallowell, A. M., Minnesota; Rev. J. R. Goddard, Ningpo, China; Charles W. Spettigue, Wilcox; U. G. Groff, Bryn Mawr; Daniel E. Lewis, Conshohocken; L. G. C. Riemer, Brookston; Frank W. Tilley, Bridgeton, N. J.; Hon. P. F. Hyatt, M. D. and John T. Hyatt, Ph. B., Cuba.

## THE ART COLLECTION.

The beginning has been made of a collection of paintings, casts, engravings, and heliotypes, for the illustration of the Fine Arts. The specimens now in possession of the college number about five hundred, of all kinds, and furnish very considerable aid in illustrating the principles and the history of painting and sculpture.

## LABORATORY AND APPARATUS.

The New Chemical and Physical Laboratory affords superior advantages in the study of Chemistry and Physics. Several rooms have been especially fitted

up to render them suitable for studying, by means of experiments, the subjects of Sound, Light, Heat and Electricity. Most of the apparatus necessary for experimenting in these branches is now provided and others will be added as occasion may demand.

The experiment room for Descriptive Chemistry will accommodate ninety-six students in two sections. Each student is provided with a desk, having upon it gas, water, basin with waste and hood for carrying off foul gases. The most frequently used chemicals and pieces of apparatus will be supplied to each student, to be retained by him during the term, and kept under lock and key. The infrequently used materials will be placed on a table to be used in common by all the students.

In the lecture-room, hoods and ventilating flues enable the Professor to perform experiments involving the generation of foul odors without vitiating the air of the room. A projecting lantern of the most improved type, made by Newton & Co. (London, Eng.); charts, and specimens are freely used to illustrate the subject under consideration.

In the Analytical rooms, full opportunity for individual work is afforded, throwing each student upon his own responsibility in order to accomplish the most complete development. Advanced students are encouraged to devise tests and methods of separation other than those mentioned in the text-book, and thus to cultivate the habit of original investigation.

The Physical and Chemical Library has a room on the second floor, and offers facilities for the complete investigation of subjects in Physics and Chemistry. A number of scientific periodicals are taken, so that the most recent thought and investigation in any line of work is accessible at any time.

The student is expected to pay for materials used and apparatus broken. To meet this, a deposit will be made in the beginning of the term with the Registrar, and the unexpended balance will be returned at the close of the term.

The Laboratories will be open from 8.30 A. M. to 5 P. M. daily, except Saturday, Sunday and legal holidays.





## GENERAL COLLEGE ORDERS.

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### ATTENDANCE.

Only under exceptional circumstances will excuses be granted to leave College during term time. In such cases the examinations on the studies gone over by the class, during a student's absence, will be specially searching, and a high degree of attainment will be exacted. One who is absent during an entire term must almost necessarily lose his standing in his class. The work of the term begins on the day of opening, and recitations are expected at the first hour appointed for the meeting of the classes. The work continues uninterruptedly, with the exception of holidays marked in the Calendar, until the last day of the term.

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### STANDING.

Each instructor records, in numbers ranging from 0 to 10, the character of the recitations of every student reciting to him, and notes also any delinquency in conduct and attendance. The weekly summary of these markings is recorded in a permanent book, and constitutes the basis for determining the standing of the student during his connection with the Institution. Unexcused absences from recitations are counted as zeroes in making up the weekly averages. At the close of each term an average of these marks is made out, and a report of the scholarship, attendance and conduct of each student is transmitted to his parent or guardian by the President. No student is advanced from one class to another whose average in any study is less than 7.

Conditioned students are not recommended to the Board of Trustees for promotion, and their names in the Annual Catalogue appear with those of the class to which the study in question belongs. Students conditioned on entrance must discharge such conditions within the first year thereafter.

Appointments in the Graduating Class are made according to the aggregate standing of each member during his entire course. But in assigning these parts, the Faculty takes into account the deportment of the student, as well as marks for recitations. The minimum average for an Oration of the First Class is fixed at 9, and for an Oration of the Second Class at 8.

Students who attain an average of 9.4 or more for their entire course are graduated *summa cum laude*; students who attain an average of 9.2 or more are graduated *magna cum laude*; those who attain an average of 9 or more are graduated *cum laude*.

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### EXAMINATIONS.

The dates of the examinations are given in the Calendar. In case a student fails to be present at the examination of his class, for any justifiable reason, his examination will be held at such time as the Faculty may appoint.



## PUBLIC WORSHIP.

The College duties of each day are opened with religious services in Bucknell Hall, which all the students are required to attend.

Attendance upon public worship in some church in town on Sunday morning is required. Students must attend the religious services held on Thanksgiving Day.

On the Day of Prayer for Colleges, religious services are held in the forenoon, when a sermon is preached by the President, or by some one at his request. All the students are required to attend. In the afternoon a prayer-meeting is held in Bucknell Hall, and in the evening, another in connection with one of the churches in town, attendance upon which is urged, though not required.

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## VOLUNTARY SOCIETIES.

**Euepia ; Theta Alpha.**—These are the two Literary Societies of the College. They have meetings on Friday evening of each week for Orations, Essays and Debates. Each Society has a convenient Hall, and, by an arrangement of the Faculty, will always have a nearly equal number of members.

**The Young Men's Christian Association** comprises students from the College. It receives religious periodicals and corresponds with kindred societies. A new Hall has recently been appropriated to the society, and has been suitably furnished for religious meetings.

**The Students' Publishing Association** is an organization which has in charge the issuing of the "University Mirror." This periodical, of some twenty-four or more quarto pages, appears semi-monthly during the collegiate year.

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## GOVERNMENT.

It is assumed that all who enter upon the courses of study in the College do so for the purpose of acquiring an education, not only of the intellect, but also of character. The Laws of the College, enacted by the Board of Trustees, are as few and simple as the proper regulation of a community of young men will permit. These are printed, and a copy is placed in the hands of every student at the beginning of each year. These Laws must be observed, not only in their letter, but in their spirit. The atmosphere of the institution is not that of arbitrary restraint, but of reasonable conformity to reasonable laws. The College does not wish to place its stamp or bestow its honors upon any one who is not willing to deport himself as a gentleman. Each student is distinctly placed upon his manhood, and if he abuses his privileges, after reasonable caution, he must withdraw from the Institution.

## PRESIDENT'S OFFICE HOURS.

The President of the University is in his office, in the Main College building, every Tuesday from 9:30 A. M. to 12 noon, to confer with students who may desire advice or assistance. Students are encouraged to communicate frankly with the President upon any subject in which he may be of help to them.

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## HEALTH AND PHYSICAL CULTURE.

### THE TUSTIN GYMNASIUM.

WILLIAM RAE HARPER, WILLARD MAINE BUNNELL, DIRECTORS.

The Tustin Gymnasium has been provided for the physical training and development of male students. Young women have opportunity for physical education in the Gymnasium of the Institute. These are now provided with the apparatus usually found in well furnished gymnasiums. The Directors of the Gymnasium examine every student, taking and recording in a book his physical measurements, and prescribe such exercises as may be required for his physical development. Regular exercise in the gymnasium is required of all students during the winter term.

The Athletic Association of the College has been formed to encourage and regulate athletic sports. Considerable liberty is permitted to the Association in carrying out its purpose. The Association is not allowed, however, to arrange match games with other similar bodies without first having secured the consent of the Faculty.

An Infirmary, separate from the rooms of the students, has been fitted up for the better care of the sick.

## AIDS AND HONORS.

### PRIZES.

#### THE FRESHMAN DECLAMATION PRIZE.

A prize is awarded to the member of the Freshman Class who shall excel in declamation at the Annual Contest of the Freshman Class.

The prize was awarded in 1894 to Maude E. Hanna.

#### THE PRIZE OF THE CLASS OF '71.

This prize, established by the Class of 1871, consists of the sum of twelve dollars, to be awarded to the student of the Freshman Class who shall prove himself best prepared for College in the two branches, Latin and Mathematics, and who shall have received his preparatory training in Bucknell Academy.

The prize for 1894 was awarded to Edward C. Kunkle.

#### THE FRESHMAN ESSAY PRIZE.

An annual prize is given to that member of the Freshman Class who shall, on or before the first day of June in each year, present the best essay upon a topic to be selected by the Professor of Rhetoric. The Committee of Award will consist of the Professor of Rhetoric and two others, to be designated by the Faculty.

The topic of the current year is "The Character of Jessica in Shakespeare's Merchant of Venice."

The prize for 1894 was awarded to Vincent B. Fisk.

#### THE SOPHOMORE DECLAMATION PRIZE.

A prize is awarded to the member of the Sophomore Class who shall excel in declamation at the Annual Contest of the Sophomore Class.

The prize for 1894 was awarded to Fred. D. Finn.

#### THE SOPHOMORE ESSAY PRIZE.

A prize is awarded to that member of the Sophomore Class who shall write the best English composition on an assigned subject. The Committee of Award consists of the Professor of Rhetoric and two others chosen by him.

The subject chosen for the year 1895 is "The classic unities in Shakespeare's *Winter's Tale*." The compositions are limited to 2,000 words, and must be presented to the Committee on or before the first day of June.

The prize was awarded in 1894 to Herbert F. Harris.

#### THE REGISTRAR'S PRIZE.

The Registrar of the University offers a prize to be awarded to that member of the Junior Class who shall pronounce the best oration at the Junior Exhibition in Oratory.

The Junior oratorical prize was awarded in 1894 to Edward G. Kendall.



**JUNIOR DEBATE PRIZE.**

Prizes will be awarded to the two members of the Junior Class who evince superiority in debate at the Junior prize contest.

The first prize was awarded in 1894, to William B. Sheddan ; the second to Frank W. Jackson.

**THE HOLLOPETER PRIZE.**

William C. Hollopeter, M. D., Class of 1874, has established an annual prize for excellence in Chemistry, to be awarded to that student at graduation who shall have done the best work in Chemistry, regard being had both to the amount and quality of the work.

This prize was awarded, 1894, to Franklin R. Strayer.

**THE HERBERT TUSTIN PRIZES.**

In memory of his deceased son, the late Professor F. W. Tustin, Ph. D., of the Class of 1856, paid to the Trustees of the University the sum of five hundred dollars, "as the foundation of the HERBERT TUSTIN PRIZE FUND, the interest of which is to be forever paid annually as two prizes, in the proportion of fifteen dollars for the First Prize, and of ten dollars for the Second Prize, to the two students of the Senior Class who shall have attained the highest and the second highest standing in Psychology and Ethics (under such regulations for the pursuit of these studies as the Faculty of the College shall prescribe from time to time), and whose conduct for the last two years of their course in College shall have been without exception."

The first prize was awarded in 1894 to Harvey L. Fassett and the second to Franklin R. Strayer.

**THE CHAPLAIN J. J. KANE PRIZE.**

The Rev. James J. Kane, Chaplain in the United States Navy, and a graduate of the Theological Department of this University, of the Class of 1867, has established a Prize Fund of one thousand dollars, the interest of which is to be given annually to that member of the graduating class who delivers the best oration on Commencement Day.

The prize was awarded in 1894 to Raymond J. Davis.

**THE CHARLES MILLER FELLOWSHIP.**

A fellowship in Chicago University, open only to graduates of Bucknell University, has been founded by Hon. Charles Miller, of Franklin, Pa.

The Bucknell University Fellow for 1894-95 is Ephraim M. Heim, A. B., Class of 1893.

**SCHOLARSHIPS.****I. THE BUCKNELL SCHOLARSHIPS.**

The William Bucknell Scholarships, twenty in number and of one thousand dollars each, were established for the purpose of aiding worthy young men in securing an education which will increase their usefulness in the world. The income of these scholarships is to be paid annually to twenty young men, in

accordance with the rules which will be made known upon application to the Committee of Examination, consisting of the President of the University, H. S. Hopper, Esq., and Professor Rockwood.

## II. SCHOLARSHIPS FOR MINISTERS' CHILDREN.

Scholarships upon the general foundation have been established for the children of Ministers of the Gospel, of all denominations, in active service.

## III. THE LIVINGSTON SCHOLARSHIPS,

Established from a legacy of M. B. Livingston, twenty-two in number, are available for students for the Ministry.

## IV. THE LONGAN SCHOLARSHIP.

The Longan Scholarship, established from a legacy of O. W. Longan, Esq., is available for a student for the Ministry from Lycoming County, Pa.

## V. ANNUAL SCHOLARSHIP.

A number of persons have established annual scholarships for the aid of young men or women attending College. Information concerning ministerial and annual scholarships can be obtained from the President of the University.

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# HONOR EXAMINATIONS.

In order to promote special scholarship in the several studies taught in the College, the following provisions has been made :

1. Any student who has attained an aggregate average of nine in all the studies of the previous term, may take special work in any department of the College, under the direction of the Professor of that department.

2. Such work must be assigned by the Professor, and the method of study prescribed by him.

3. If the student shall attain an aggregate average of nine in all the studies of the current term, and pass a satisfactory examination in the voluntary study before a committee appointed by the Faculty, the work shall be credited to him in the Annual Catalogue of the College.

4. But one such study shall be pursued by any one student during any one term.

5. The Professor under whom the student is working shall have the privilege of requiring a partial examination on the work done at any time during the term, and there may be regular recitations, at the Professor's option.

6. The amount and quality of this extra work shall be taken into the account in awarding honors at graduation.

The following Honor Examinations have been sustained during the year ending June 20, 1894.

**With the President :** Andrew F. Anderson, George H. Waid, and Joseph R. Wood in Hamilton's Metaphysics ; Frederic Otto Schub in Lotze's Grundzüge der Psychologie ; Eliza Bell, Robert B. Davidson, Raymond J. Davis, Mary B. Harris, James R. Hughes, Alonzo C. Lathrop, Franklin R. Strayer, Wilson



M. Vastine, Jessie Wheeler, William A. Crawford, William A. Kaufman, Herbert M. Pease, David Philips, Herbert S. Schuyler, William B. Sheddan, and Bromley Smith, in Rosenkranz' Philosophy of Education.

**With Professor Loomis:** Andrew G. Loomis, Leo G. C. Riemer and Lewis C. Walkinshaw in German.

**With Professor Groff:** Eliza Bell and Mary L. Bartol in Mineralogy.

**With Professor Bartol:** Franklin R. Strayer and Charles W. Williams in Practical Astronomy; Robert B. McCay and Herbert S. Schuyler in Differential Calculus; Robert B. McCay and Herbert S. Schuyler in Integral Calculus.

**With Professor Rockwood:** Grace Guthrie and Mary B. Harris in Early Latin; Mary B. Harris in Paterculus and Plautus; Herbert B. Moyer in Ovid.

**With Professor Owens:** Joseph C. Carey and Nelson F. Davis in Chemical Philosophy; Frank W. Jackson in Physics; and Herbert S. Schuyler in Organic Chemistry.

**With Professor Perrine:** Everett A. Bush, Harvey L. Fassett, Warren S. Marts, Levi L. Riggin, Edward G. Kendall, Alexander E. Douglas, Herbert F. Harris in Pier's Plowman; Grace Guthrie in Anglo-Saxon; Everett A. Bush, Perry S. Calvin, Harvey L. Fassett, Warren S. Marts, Levi L. Riggin, Ralph R. Snow, Minnie Cotton, Edward G. Kendall, Bromley Smith, John W. Davis, and Leo G. C. Reimer in Middle English; Warren S. Marts, Ralph R. Snow, Ezra Allen, Herbert M. Pease, William Wilson in Milton; Harvey L. Fassett in Shakespeare.

**With Professor Hamblin:** Fred D. Finn, Maude E. Hanna and Edward C. Kunkle in Xenophon's Oeconomics; and Willard Maine Bunnell, Maude E. Hanna, Rose L. Hartley and Edward C. Kunkle in Odyssey.

**With Professor Hulley:** Raymond J. Davis, Albert E. Finn, Alonzo C. Lathrop, Charles F. Mc Mann, Charles W. Williams, Joseph R. Wood and Albert H. Wynkoop in English Bible; Joseph R. Wood, Joseph C. Carey and Herbert S. Schuyler in English History.

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## EXPENSES.

The Study Rooms are so arranged that two students occupy the same study. The Dormitories are intended to accommodate only one person, so that each student has his own private sleeping room. These are furnished with new spring bedsteads. The student must supply himself with all other furniture. Students are responsible for damage to their rooms, whether it be done when they are present in the room or absent from it.

The College charges amount to eighty-five dollars per annum, for those who room in the College building and seventy-five dollars for those who room in the town. The Scholarships are rated at fifty dollars per annum.

These charges must be paid in advance at the beginning of each term.

No student is entitled to his place in his class until he has made settlement with the Registrar.



A slight additional charge is made for rooms cared for by the Institution. No deduction will be made except in case of protracted illness.

If a student occupy a study by himself, the charges for room-rent and private fuel will be doubled. The assignments are for one year, and are made the first Monday morning in June, immediately after the devotional exercises in Bucknell Hall. Students from a distance will save inconvenience by applying to the Registrar for a room before the term opens.

Young men in the Collegiate Department, who so desire, can have furnished rooms, with board, in the East Hall of the Academy ; young ladies in the same department have their residence in the Institute. For rates apply to the Registrar.

Free scholarships, covering tuition, are also provided in all the departments of the University for children of Ministers of the Gospel, *in actual service*.

In the laboratories students pay for chemicals used and for apparatus broken or damaged. In the Chemical Laboratory this will amount to about \$12.00 for Analytical and \$3.25 for General Chemistry, depending upon the care of the student. Before entering upon the experimental courses students must deposit with the Registrar security for materials used.

The Expenses for Music and Printing for Examinations and Anniversary occasions are paid for by the classes for which such expenses are incurred. Graduation fee and Diploma, five dollars. Degree of Master of Arts and Diploma, five dollars.

Many students board in clubs at a cost of from \$2.00 to \$2.50 per week. Excellent boarding can be obtained in private families at \$3.00 or \$4.00 per week, or at the table of the Bucknell Academy at \$3.00 per week. Washing is done at 25 cents per week. No boarding is allowed in the College buildings. It will be a matter of economy to bring some articles of furniture, especially bedding and carpets, from home. The dimensions of the study rooms are twelve by twelve feet ; of the dormitories, twelve feet by six feet ; of the bedsteads, seventy-five inches by thirty inches.



FORTY-FOURTH  
ANNUAL COMMENCEMENT.

Wednesday, June 20, 1894.

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HONORS AT GRADUATION.

ORATIONS OF THE FIRST CLASS.

*SUMMA CUM LAUDE:*

ANDREW FREEMAN ANDERSON,	HARVEY LEARN FASSETT,
MARY L. BARTOL,	GRACE GUTHRIE,
ELIZA BELL,	MARY BELLE HARRIS,
ROBERT BAILEY DAVIDSON,	FRANKLIN REESE STRAYER,
RAYMOND JOHN DAVIS,	JESSIE JUNE WHEELER,
JOSEPH ROBERT WOOD.	

*MAGNA CUM LAUDE:*

EVERETT ADAMS BUSH,	WARREN STANLEY MARTS,
PERRY SYLVESTER CALVIN,	FREDERICK OTTO SCHUB,
JAMES ROWLAND HUGHES,	GEORGE HENRY WAID.

*CUM LAUDE:*

GEORGE EDWARD DEPPEN,	LEVI LORE RIGGIN,
ALONZO CORODYN LATHROP,	HARVEY FETTERHOFF SMITH,
CHARLES WESLEY WILLIAMS.	

ORATIONS OF THE SECOND CLASS.

ALBERT EDWARD FINN,	CHARLES FRANKLIN MCMANN,
THOMAS STRADLING FRETZ,	RALPH RANSSALAER SNOW,
JAMES MALCOLM KENDALL,	WILSON METTLER VASTINE,
ALBERT HARNISH WYNKOOP.	

DEGREES CONFERRED.

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I. IN COURSE.

BACHELOR OF ARTS.

ANDREW FREEMAN ANDERSON,	JAMES MALCOLM KENDALL,
MARY L. BARTOL,	ALONZO CORODYN LATHROP,
EVERETT ADAMS BUSH,	CHARLES FRANKLIN,
PERRY SYLVESTER CALVIN,	WARREN STANLEY MARTS,

ROBERT BAILEY DAVIDSON,  
 RAYMOND JOHN DAVIS,  
 GEORGE EDWARD DEPPEN,  
 ALBERT EDWARD FINN,  
 THOMAS STRADLING FRETZ,  
 GRACE GUTHRIE,  
 MARY BELLE HARRIS,  
 JAMES ROWLAND HUGHES,

FREDERICK OTTO SCHUB,  
 FRANKLIN REESE STRAYER  
 RALPH RANSSALAER SNOW,  
 WILSON METTLER VASTINE,  
 GEORGE HENRY WAID,  
 JESSIE JUNE WHEELER,  
 CHARLES WESLEY WILLIAMS,  
 JOSEPH ROBERTS WOOD.

## BACHELOR OF PHILOSOPHY.

ELIZA BELL,  
 HARVEY LEARN FASSETT,

LEVI LORE RIGGIN,  
 HARVEY FETTERHOFF SMITH,  
 ALBERT HARNISH WYNKOOP.

## BACHELOR OF SCIENCE.

HOWARD POLLOCK GUNDY,

GILBERT FENIMORE KENDALL.

## MASTER OF ARTS.

CHARLES FOSTER CAMPBELL,  
 HERBERT CHARLES DONAT,

MARGARET ORWIG EVANS,  
 ABRAHAM LINCOLN MOORE,  
 FOSTER HENRY STARKEY.

## II. HONORARY.

## DOCTOR OF DIVINITY.

THE REVEREND MILTON EVANS, A. M., B. D.  
 THE REVEREND JOSEPH KOSSUTH DIXON, A. M.

## MASTER OF ARTS.

LEWIS MERRILL, Major General, U. S. A.





# THE ACADEMY.

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## INSTRUCTORS AND OTHER OFFICERS.

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JOHN HOWARD HARRIS, PH. D., LL. D.,  
PRESIDENT OF THE UNIVERSITY.

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THOMAS A. EDWARDS, A. M., PRINCIPAL,  
LATIN.

ALBERT BURNS STEWART, A. M.,  
MATHEMATICS.

GEORGE EDWARD FISHER, PH. B.,  
ENGLISH AND SCIENCE.

LLEWELLYN PHILLIPS, A. B.,  
GREEK.

MRS. ANNIE M. BLACK,  
MATRON.

WILLIAM CHRISTIAN GRETZINGER, PH. B.,  
REGISTRAR OF THE UNIVERSITY.

## STUDENTS.

## THE FOURTH FORM.

## CLASSICAL.

NAME.	RESIDENCE.	ROOM.
GEORGE LIVINGSTON BAYARD,	<i>Plymouth Meeting.</i>	No. 21, East Hall.
LOGAN CARNEY CRISMYRE,	<i>Lewisburg.</i>	Mr. Samuel Crismyre.
EMANUEL WILSON COBER,	<i>Pine Hill.</i>	No. 19, West Wing.
OLIVER JOHN DECKER,	<i>DuBoistown.</i>	No. 17, West Wing.
CHARLES WAY HARVEY,	<i>Unionville.</i>	Mrs. Margaret Anderson.
JAMES JARRETT HOBBS,	<i>Sharon.</i>	No. 10, Main Hall.
JOSEPH CHALMER HAZEN,	<i>Achor, Ohio.</i>	No. 17, East Wing.
ADONIRAM JUDSON HANNA,	<i>Pottsville.</i>	No. 3, East Wing.
LEROY HALL,	<i>Union City.</i>	No. 17, East Wing.
CHARLES PAUL MEEKER,	<i>Philadelphia.</i>	No. 20, West Wing.
EDWIN L. NESBIT,	<i>Lewisburg.</i>	Mr. J. C. Nesbit.
WILLIAM MYLES WARREN,	<i>Germantown.</i>	No. 4, Main Hall.

## THE FOURTH FORM.

### SCIENTIFIC.

NAME.	RESIDENCE.	ROOM.
SAMUEL JOSEPH CLEELAND,	<i>Philadelphia.</i>	No. 33, West Wing.
REESE ALONZO DAVIS,	<i>Mt. Carmel.</i>	No. 7, Main Hall.
GOTTLIEB L. FREUDENBERGER,	<i>Tamaqua.</i>	No. 13, East Hall.
ALBERT HUTCHINSON,	<i>Holmes.</i>	No. 12, East Hall.
HARRY BENJAMIN LEVIS,	<i>West Chester.</i>	No. 16, West Wing.
FRANK GARF PERRIN,	<i>Edgmont.</i>	No. 4, West Wing

## THE THIRD FORM.

### CLASSICAL.

NAME.	RESIDENCE.	ROOM.
BRYANT EVANS BOWER,	<i>Lewisburg.</i>	F. E. Bower, Esq.
THOMAS REESE BOWER,	<i>Lewisburg.</i>	F. E. Bower, Esq.
HERBERT NORMAN BUTLER,	<i>East Lewisburg.</i>	Mr. John W. Butler.
JOHN WILLIAM COTTRELL,	<i>Union City.</i>	No. 30 West Wing.
HENRY LEONARD CRAIG,	<i>Philadelphia.</i>	No. 8½, East Wing.



NAME.	RESIDENCE.	ROOM.
AMOS KAPP DEIBLER,	<i>Deibler's.</i>	No. 10, West Wing.
ARTHUR NICHOLAS DEVORE,	<i>Lewisburg.</i>	Rev. E. A. Devore.
ANDREW NEBINGER EVANS,	<i>Montandon.</i>	Mr. W. L. Snyder.
CHARLES FREDERICK KULP,	<i>Philadelphia.</i>	No. 20, West Wing.
HARRY MAIZE LEWIS,	<i>Lewisburg.</i>	Mrs. Hannah M. Maize.
CHARLES JUDD PEARSE,	<i>Payette, Idaho.</i>	No. 10, Main Hall.
WALTER ELMER RUCH,	<i>Northumberland.</i>	Mr. H. F. Ruch.
MARTIN LUTHER ROSS,	<i>Mifflinburg.</i>	No. 5, Main Hall.
GEORGE LEWIS SCHUYLER,	<i>Milton.</i>	Home.
HENRY E. STABLER,	<i>Warrensville.</i>	No. 12, West Wing.
AUGUST SHUHART,	<i>Philadelphia.</i>	No. 6, West Wing.
JOHN LUTHER SIEBER,	<i>Lewisburg.</i>	Rev. L. L. Sieber.
JOHN SHERMAN,	<i>Philadelphia.</i>	No. 5, Main Hall.
WILLIAM S. WENCK,	<i>Northumberland.</i>	Mrs. Margaret Anderson.

## SCIENTIFIC.

NAME.	RESIDENCE.	ROOM.
CHARLES BALDRY AUSTIN,	<i>Detroit, Mich.</i>	No. 11, Main Hall.
MAINEARD LESHER BAKER,	<i>Cowan.</i>	No. 7, Main Hall.
THOMAS E. COOPER,	<i>Union City.</i>	No. 23, East Hall.
WILLIAM BITTENBENDER DITZLER,	<i>Chulasky.</i>	No. 9, East Hall.
WILLIAM HOWARD HILL,	<i>Clarkstown.</i>	No. 18, East Hall.

NAME.	RESIDENCE.	ROOM.
RALPH SAMUEL KOSER,	<i>Williamsport.</i>	No. 13, East Hall.
HARRY RUHL THORNTON,	<i>Lewisburg.</i>	Dr. T. C. Thornton.
JOHN HENRY WEIDENSAUL,	<i>Lewisburg.</i>	Mr. H. F. Weidensaul.

### THE SECOND FORM.

NAME.	RESIDENCE.	ROOM.
GEORGE DYSON BOWERS,	<i>Chester.</i>	No. 12, East Hall.
WILLIAM BELL,	<i>Lewisburg.</i>	Mr. Wm. F. Bell.
WILLIAM A. BOWMAN,	<i>Bridgeport.</i>	No. 3, West Wing.
CARLTON CHAPPELL COMFORT,	<i>Bristol.</i>	No. 8, Main Hall.
HARRY DARRE,	<i>Wilmington, Del.</i>	
JOHN THOMAS DAVIS,	<i>Fentress, Va.</i>	No. 8, Main Hall.
WILLIAM DEVITT,	<i>Manayunk.</i>	No. 6, Main Hall.
ALFRED ALLEN EARLE,	<i>Lewisburg.</i>	Rev. I. N. Earle.
THOMAS EVANS,	<i>Freeland.</i>	No. 12, East Hall.
GORDON FORSTER,	<i>Lewisburg.</i>	Mr. William Forster.
RALPH HARTLEY,	<i>Guelph, Ont.</i>	Rev. Wm. Hartley.
JESSE CORNELIUS HIGGINS,	<i>Lewisburg.</i>	Mr. D. P. Higgins.
JOSEPH JORDAN,	<i>Sharon.</i>	No. 19, East Hall.
ARTHUR EDWIN JAMES,	<i>Hartford, Conn.</i>	No. 3, Main Hall.

NAME.	RESIDENCE.	ROOM.
CHARLES KENNEDY McCORMIC,	<i>Uniontown.</i>	No. 16 East Hall.
WILLIAM LAWRENCE MILES,	<i>Fleming.</i>	No. 27, West Wing.
RAYMOND GRIFFITH PIERSON,	<i>Philadelphia.</i>	No. 10, Main Hall.
ROBERT J. POWELL,	<i>Ridgeway.</i>	No. 11 East Hall.
JOSEPH ZERBE ROWE,	<i>Reading.</i>	No. 6, Main Hall.
ALBERT C. SAVIDGE,	<i>Sunbury.</i>	Hon. C. R. Savidge.
CARL H. SENN,	<i>Williamsport.</i>	No. 10, Main Hall.
SAMUEL WITTENMYER,	<i>Middleburgh.</i>	No. 11, East Hall.
BENJAMIN WHITMAN,	<i>Lewisburg.</i>	Mr. F. O. Whitman.
JOHN ADAM YOUNG,	<i>New Columbia.</i>	Mr. Harry Poeth.

## UNCLASSIFIED.

NAME.	RESIDENCE.	ROOM.
ARTHUR DAVID ANSTOCK,	<i>Mahanoy City.</i>	No. 3, Main Hall.
MALCOLM PURTY DAVIS,	<i>Lewisburg.</i>	Rev. L. C. Davis.
MERLE MOE EDWARDS,	<i>Lewisburg.</i>	Prin. T. A. Edwards.
ROBERT HOOD,	<i>Lewisburg.</i>	Mr. C. F. Hood.
CHARLES W. KRAMER,	<i>Winfield.</i>	Mr. Elias Kramer.
SAMUEL WALTER LEE,	<i>Lewisburg.</i>	Home.
GEORGE ADDAMS LEBKICHER,	<i>Mifflnburg.</i>	Mrs. Rebecca Lebkicher.
OSCAR ROBERT LEVAN,	<i>Hamburg.</i>	No. 25, West Wing.
J. ARTHUR McNITT,	<i>Reedsville.</i>	No. 20, East Hall.



NAME.	RESIDENCE.	ROOM.
CRISSIE LIVINGSTON MCQUISTION,	<i>Butler.</i>	No. 16, East Hall.
ALBERT WALLS SMITH,	<i>Lewisburg.</i>	Mr. J. C. Smith.
JOSEPH THOMPSON SNYDER,	<i>Lewisburg.</i>	Miss Kate J. Thompson.
CLOYD NELLIS STEININGER,	<i>Lewisburg.</i>	Mr. A. R. Steininger.
GEORGE HERBERT STEWART,	<i>Lewisburg.</i>	Prof. A. B. Stewart.
EZRA JAY WAGER,	<i>Hillsgrove.</i>	No. 18 East Hall.
ELI SLIFER WALLS,	<i>Lewisburg.</i>	Mr. W. C. Walls.

SUMMARY.

The Fourth Form, Classical.....	12	
Scientific.....	6	18
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The Third Form, Classical.....	19	
Scientific .....	8	27
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The Second Form.....		24
Unclassified.....		16
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Total in Academy.....		85
In other Departments.....		300
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Total in all Departments.....		385



## COURSES OF STUDY.

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The Academy is designed to fit pupils for College, for Teaching or for Business. It affords two Courses of Study.

I. The Classical Preparatory Course extends through four years and is arranged to meet the requirements for admission to College. The study of Latin begins with the Second Form and continues for three years. The study of Greek begins with the Third Form and continues for two years. Notwithstanding the time given to these important branches of study, fully one-half of the time of the entire course is devoted to English, Historical, Mathematical and Scientific subjects.

II. The Scientific Preparatory Course extends through four years and furnishes adequate preparation for either division of the Philosophical Course in College. The First and Second Forms of the Classical and the Scientific Courses are identical. In the Third and Fourth Forms, the student preparing for the Latin Division substitutes Historical and Scientific subjects for the Greek of the Classical Course; while the student preparing for the Greek Division substitutes the Greek of the Third and Fourth Forms for the Latin and includes the Historical and Scientific subjects.

Students may enter the Form which they are prepared to pursue with profit.

Students who are able to accomplish more work in the allotted time than is required by the Classical Course, are encouraged to add the special studies of the Scientific Course. They may also pursue extra honor work in the Classics by reading, under an instructor's direction, Cæsar's Civil War, Cicero's Letters, or Sallust, and the Books IV, V, VI, of the Iliad, or the Hellenica.

Students who are preparing for the English Scientific Course in College can elect the necessary studies from the regular Curricula of the Academy.

Students who do not intend to enter College, but who desire a comprehensive academic training, will find the Scientific Preparatory Course, with Latin, well adapted to prepare them for teaching or for business.

Transient students may elect such studies as they are qualified to pursue from the studies in actual progress in any given term.



## CURRICULA.

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### I. CLASSICAL PREPARATORY COURSE.

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#### FIRST FORM.

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|--|--|
| I. TERM—Arithmetic,<br>English Grammar,<br>History of the United States, | Wentworth,<br>Outlines and Exercises,<br>Barnes. |
| II. TERM—Arithmetic,<br>English Grammar,<br>General History,             | Wentworth,<br>Outlines and Exercises,<br>Barnes. |
| III. TERM—Arithmetic,<br>English Grammar,<br>General History,            | Wentworth,<br>Whitney's Essentials,<br>Barnes.   |

#### SECOND FORM.

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|--|--|
| I. TERM—Higher Arithmetic,<br>Latin—Lessons,<br>Rhetoric,  | Wentworth,<br>Tuell and Fowler,<br>Hill's Elements.            |
| II. TERM—Book-Keeping,<br>Latin—Lessons,<br>Grammar,<br>History of Greece,                       | Bryant,<br>Tuell and Fowler,<br>Allen and Greenough,<br>Myers. |
| III. TERM—Physical Geography,<br>Cæsar's Commentaries,<br>History of Rome,<br>Elementary Botany, | Appleton,<br>Harper and Tolman,<br>Myers,<br>Gray.             |

#### THIRD FORM.

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|--|--|
| I. TERM—Natural Philosophy,<br>Cæsar's Commentaries,<br>Greek—Lessons,<br>Grammar, | Sharpless and Philips,<br>Harper and Tolman,<br>White,<br>Goodwin. |
| II. TERM—Algebra,<br>Vergil's Æneid,<br>Greek—Lessons,<br>Grammar,                 | Sheldon's Elements,<br>Harper and Miller,<br>White,<br>Goodwin.    |



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| III. TERM—Algebra,<br>Vergil's <i>Æneid</i> ,<br>Xenophon's <i>Anabasis</i> , | Sheldon,<br>Harper and Miller,<br>Kelsey. |
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**FOURTH FORM.**

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|---|---|
| I. TERM—Algebra, Quadratics,<br>Latin—Vergil's <i>Æneid</i> ,<br>Prosody,<br>Xenophon's <i>Anabasis</i> , | Sheldon,<br>Harper and Miller,<br>Harper and Miller,<br>Kelsey, |
| II. TERM—Plane Geometry,<br>Latin—Cicero's Orations,<br>Prose Composition,<br>Homer's <i>Iliad</i> ,      | Wentworth,<br>Allen and Greenough,<br>Daniell,<br>Seymour,      |
| III. TERM—Plane Geometry,<br>Cicero's Orations,<br>Greek—Homer's <i>Iliad</i> ,<br>Prose Composition,     | Wentworth,<br>Allen and Greenough,<br>Seymour,<br>Woodruff.     |

**III. SCIENTIFIC PREPARATORY COURSE.****FIRST FORM.**

- |   |  |
|---|--|
| I. TERM—Arithmetic,<br>English Grammar,<br>History of the United States | Wentworth,<br>Outlines and Exercises,<br>Barnes. |
| II. TERM—Arithmetic,<br>English Grammar,<br>General History,            | Wentworth,<br>Whitney's Essentials,<br>Barnes.   |
| III. TERM—Arithmetic,<br>English Grammar,<br>General History,           | Wentworth,<br>Outlines and Exercises,<br>Barnes. |

**SECOND FORM.**

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|--|--|
| I. TERM—Higher Arithmetic,<br>Latin—Lessons,<br>Rhetoric,  | Wentworth,<br>Tuell and Fowler,<br>Hill's Elements.            |
| II. TERM—Book-Keeping,<br>Latin—Lessons,<br>Grammar,<br>History of Greece,                       | Bryant,<br>Tuell and Fowler,<br>Allen and Greenough,<br>Myers. |
| III. TERM—Physical Geography,<br>Cæsar's Commentaries,<br>History of Rome,<br>Elementary Botany, | Appleton,<br>Harper and Tolman,<br>Myers,<br>Gray.             |

## THIRD FORM.

- |   |   |
|---|---|
| I. TERM—Natural Philosophy,<br>Cæsar's Commentaries,<br>History of England, | Sharpless and Philips,<br>Harper and Tolman,<br>Guest.              |
| II. TERM—Algebra,<br>Vergil's Æneid,<br>Astronomy,                          | Sheldon's Elements,<br>Harper and Miller,<br>Sharpless and Philips. |
| III. TERM—Algebra,<br>Vergil's Æneid,<br>Civil Government,                  | Sheldon's Elements,<br>Harper and Miller,<br>Cocker.                |

## FOURTH FORM.

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|---|---|
| I. TERM—Algebra, Quadratics,<br>Latin—Vergil's Æneid,<br>Prosody,<br>Physiology,                  | Sheldon,<br>Harper and Miller,<br>Harper and Miller,<br>Walker. |
| II. TERM—Plane Geometry,<br>Latin—Cicero's Orations,<br>Prose Composition,<br>English Literature, | Wentworth,<br>Allen and Greenough,<br>Daniell,<br>Pancoast.     |
| III. TERM—Plane Geometry,<br>Cicero's Orations,<br>Geology,                                       | Wentworth,<br>Allen and Greenough,<br>Le Conte.                 |



## METHODS OF INSTRUCTION.

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The Preparatory Curriculum naturally falls into six principal lines of study, viz.: English, Latin, Greek, History, Mathematics, and Natural Science. These combine, in due proportion, the cultural, the disciplinary and the practical elements of intermediate education. The two great divisions of modern study, the Classical and the Scientific, are accorded adequate and appropriate preparation. The subjects, facilities and methods of the various departments are explained below.

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### I. THE ENGLISH LANGUAGE.

A thorough grounding in the principles of English Grammar is indispensable to the student's progress in the subsequent language studies. The continuous application of this knowledge in Composition, and the constant comparison with the forms and idioms of the Ancient Languages, prepare the way for the study of elementary Rhetoric, and the appreciative reading of English and American Literature. The aim is the clear, elegant and forcible use of the mother tongue as the chief instrument of expression.

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### II. THE LATIN LANGUAGE.

The Inductive Method is used in the elementary instruction. The student investigates the formation of the language. The abstract rules of Syntax are learned from the analysis and synthesis of sentences. Careful drill is given in the declensions and conjugations, the use of the moods and the sequence of tenses, in the ready reading of the Latin text, in sight reading and in accurate translation into idiomatic English. Attention is given to the important personal, historical and political elements in the writings of Cæsar and Cicero. In Vergil, the student is introduced to the poetry, legend, religion, philosophy and art of Rome. He is taught to investigate the allegorical, archæological and mythical allusions of the Æneid, and to appreciate it as the mirror of the life of the Empire. Latin prosody is taught first from the text, and then from the grammar.

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### III. THE GREEK LANGUAGE.

The first half year of the Third Form is spent in acquiring sufficient knowledge of forms and inflections to commence the study of Xenophon's Anabasis. During the last half year, special attention is given to the inflection and syntax



of nouns, pronouns and adjectives. The reading of Xenophon is continued in the first term of the Fourth Year, and the forms and syntax of verbs made a special study. Homer is then read for one term and a half, and the difference between Homeric and Attic forms is noted. During the last half term Xenophon is reviewed, that the student may refresh his knowledge of Attic Greek, and may not find the transition to College needlessly difficult. Almost daily drill is given in turning into Greek, sentences based on the text of Xenophon.

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#### IV. HISTORY.

The course in History includes a survey of the History of the United States, England, Greece and Rome. The aim is not so much to fill the students's mind with a collection of dates and events, as to acquaint him with the life, the genius, the institutions and the achievements of the respective peoples, and their part in the wider history of mankind. Students are encouraged to cultivate the historical imagination; to compare race characteristics, arts and religions; and to appreciate the noble ideals, the heroic struggles and sacrifices, that have imparted imperishable worth to human institutions.

**Civil Government** is taught as a preparation for intelligent citizenship. The origin and growth of our institutions, the functions of the various departments of the National, State and local governments; the political history of the people; the interpretation and construction of the Constitution, are clearly presented and discussed.

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#### V. MATHEMATICS.

**Arithmetic.**—To students who are fitting themselves for business, a course is given in practical business Arithmetic, involving all the ordinary problems and practices in the business world. To those who are preparing for College or for teaching, instruction is given in the theory and science of Arithmetic. Pupils are expected to master the principles and then to formulate their own rules.

**Algebra.**—The course extends through one period daily for one year, and includes a thorough knowledge of the fundamental principles, Factoring, Divisors and Multiples, Fractions, Equations, Involution, Evolution, Theory of Exponents, Radicals and Quadratic Equations. Daily blackboard work serves to apply the principles taught. The student is required both to know the methods of the solution of problems and also to explain the operation to the class.

**Plane Geometry.**—The instruction consists in daily recitations for two terms on the Theorems and Problems given in the text-book, with original demonstrations of the same Propositions by the students, from hints and figures given in the class-room. Besides this, considerable attention is given to the solution of original Propositions, and the application of principles thus learned to the solution of numerical problems.

**Book-Keeping.**—A practical introduction to the science of accounts is secured in the term devoted to mastering the principles of Double Entry Book-Keeping. Careful attention is given to business forms, to the usages of Banks, and to the elements of Commercial Law. The subject may be pursued in its more extended and intricate applications by a second term's work, open to properly qualified students.

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## VI. SCIENCE.

**Physical Geography** lays a foundation for subsequent work in all sciences. It surveys the earth's physiography, climate, atmosphere, fauna, flora, ocean tides and currents, and geological agencies. Special attention is given to the physical features of the United States. The subject is illustrated by drawings, photographs, colored and relief maps, and specimens from the Museum.

**Botany** is taught by text-book, field exercise, plant analysis and weekly lectures. A brief outline is first obtained of plant structure, physiology, growth, and reproduction. The subject is then reviewed by daily drill in analyzing, recording, classifying, and preserving specimens. The recorded analysis of fifty plants is required. Lectures explaining special forms of vegetable growth, the flora of this country, the cultivation, uses, and history of plants complete the work.

**Physiology.**—Every effort is made to impart clear ideas of the structure, parts and functions of the human body. Special attention is given to the chemistry of foods, the laws of health, the effects of stimulants and narcotics. Suggestions are constantly made as to poisons and their antidotes, the care of the sick, disinfection and sanitation, and accidents and emergencies. Charts, manikin and preparations are used in class.

**Natural Philosophy.**—The students is thoroughly grounded in the elements of mechanics and physics. The apparatus of the College laboratory is available for use. The historical beginnings of each subject, and subsequent development, are sketched in brief lectures. No pains are spared to familiarize the pupil with the laws of these sciences, by instruction, experiment, review, and repeated examination. The truth of principles is proved, except where the demonstration involves the mathematics of the higher course in College.

**Astronomy.**—Descriptive Astronomy discusses the earth's relation to the solar system, the masses, motions and orbits of each member of it; the causes and consequences of at least five motions of the earth; general boundaries of the constellations of the Zodiac and northern heavens; the accepted theories of comets, meteors and nubulæ. Charts, star maps, globes, and other apparatus are used, and the student is afforded privileges of observation in the College Observatory.

**Geology.**—The student here masters the elements of lithological, structural, dynamic, and historical Geology. Specimens of various rocks and minerals are handled in class; their composition, characteristics and place in nature are explained; the structure of the earth in its present form is studied; the history



of its evolution, the age and characteristics of its strata, the chief geological features of each continent, and the forces at work, and that have worked to produce change, are considered.

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## VII. ORATORY.

**Class Exercises.**—Members of the Fourth Form prepare and deliver two original orations each term. All other students have regular exercises in Composition and Declamation throughout the year. These exercises are held in Bucknell Hall on Saturday morning, before the assembled faculties and students of the Institute and the Academy. Visitors are cordially welcomed to these exercises.

In addition to the private rehearsals for the work above indicated, all students receive weekly instruction in Elocution. The course includes careful drill in the Elementary sounds, in Articulation, and in Expression; Analytical Reading, Including the Bible and Hymns, and the study of Shakespeare.

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## VIII. SPECIAL BRANCHES.

**Bible Study.**—The study of the Bible is pursued as a regular weekly recitation throughout the Second, Third and Fourth Forms, in both courses of study. A manual of Biblical History is used with constant collateral readings from the Sacred Scriptures. The recitations of the Second Form cover the period from Genesis to Judges; those of the Third Form complete the Old Testament; those of the Fourth Form complete the New Testament.

**Literature Study.**—The reading and study of the masterpieces of English and American Literature is maintained in the Second, Third and Fourth Forms, by means of weekly recitations and conferences. The work required is identical with the "Scheme of Uniform Entrance Examinations in English Language and Literature," recently adopted by the "Association of Colleges and Preparatory Schools of the Middle States and Maryland." It comprises (a) careful readings of representative works of certain authors, as literature; (b) thorough study as to "subject-matter, form, and structure" of other selections. Regular examinations will determine the student's proficiency.

**The Study of Music** may be pursued by Academic students under the instruction of Professor E. Aviragnet and his Assistants, of the School of Music.

**Drawing.**—All students of the Academy may receive throughout the year weekly lessons in Free-hand Drawing. Special individual instruction in Drawing is afforded at twenty-four dollars per annum.

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## IX. HEALTH AND PHYSICAL CULTURE.

The Tustin Gymnasium affords opportunity for physical exercise in the winter and during inclement weather at other seasons. The Directors of the Gymnasium give regular class exercises to the students of the Academy. At



tendance upon physical training in the Gymnasium is obligatory during the Winter Term.

The Athletic Association of the Academy has been formed to encourage and regulate athletic sports. The Association is allowed to arrange match games with other similar bodies by first securing the consent of the Principal.

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## PUBLIC EXHIBITIONS.

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### THIRD FORM.

The Public Exhibition of the Third Form in Declamation will take place on Saturday evening, April 27, 1895, in Commencement Hall.

### FOURTH FORM.

The closing exercises of the Academy will be the Public Exhibition of the Fourth Form in Oratory, on Tuesday morning, June 18, 1895.



## GENERAL INFORMATION.

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### ADVANTAGES.

To the student seeking preparation for College, the Academy offers unusual inducements. Its proximity to the College secures to him an atmosphere of study, acquaintance with the guides and companions of his future course, and the benefit of numerous literary exercises to be found only in College towns. He has access to the College Library and Reading-Room. The Academy is designed to fit its pupils thoroughly for College, for Business or for Teaching. It aims to lay broad and solid foundations for all subsequent scholarly culture, and for the successful conduct of every-day affairs.

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### GOVERNMENT.

Students are encouraged to regard self-government as the only true government. It will be the constant endeavor to secure uprightness of character, gentlemanly deportment, and diligent application to work, by kind treatment, and high standards in conduct and study. The Academy cannot knowingly accept or retain incorrigibles.

#### I. ADMINISTRATION.

1. The general control of the Academy is vested in the President of the University.
2. The government of the Academy, subject to such control, rests with the Principal of the Academy.
3. The government of each Hall is vested in the Instructor in charge, who resides in the Hall and enforces regulations for the Hours of Study, Academy Property, Hygienic Precautions and General Deportment, and such other prudential regulations as may be ordered by the joint concurrence of the President of the University and the Principal of the Academy.
4. Each Instructor will have charge of his class with reference to attendance upon recitations. In case any student is absent twice in any one term, without good excuse, from recitations, or from his room in the evening after the hour of seven, it shall be the duty of the Principal of the Academy to give information of the fact to the parent or guardian of the pupil so offending.

#### II. VIOLATION OF RULES.

1. Any officer of the Institution becoming cognizant of violation of regulations by any pupil shall report the same to the Principal of the Academy,

who shall make a record of the fact in a book provided for the purpose. Any second violation by the same pupil shall also be reported to the President of the University; and if, in the judgment of the President of the University, and the Principal of the Academy, the offence be of sufficient gravity, the parent or guardian of the offending pupil shall be notified.

2. Violations of these and other prudential regulations shall be punished by private reprimand, or by reprimand in the presence of the students of the Academy by the Principal, or by reprimand before the University by the President, or by suspension, or by expulsion, according to the gravity or repetition of the offence.

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## BUILDINGS AND ROOMS.

The Academy Buildings are described in detail in the introductory pages of this Catalogue.

**The Main Building** contains, besides its accommodations for other school and boarding purposes, furnished rooms for students. These rooms are designed to accommodate two students each, and are twenty feet by twelve feet, and fourteen feet high. They are sub-divided into a study room twelve feet by ten feet, and a dormitory nine feet square. The dormitory contains a double bed with woven wire mattress. Both rooms are provided with all necessary furniture.

**The New East Hall** contains combined study and sleeping rooms, each designed for two students. These rooms are fifteen feet by twelve feet, with high ceilings; and contain two commodious closets and two single wire-mattress beds with all necessary furniture.

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## UNFURNISHED ROOMS.

The Academy has a number of unfurnished rooms for the accommodation of students of mature years and of limited means. No attention by servants is given to these rooms, nor are lights supplied. Two students occupy a study room in common. The dormitories are provided with a double-spring bedstead. All other furnishing is to be done by the occupants. While second-hand articles of furniture may be obtained here, it will be to the student's advantage to bring from home bedding and carpets. The dimensions of the study rooms are ten feet by twelve feet; of the dormitory, nine feet by nine feet.

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## ARTICLES REQUIRED.

Each student should be provided with an umbrella, overshoes, table napkins, towels, soap, and other articles usually required for personal comfort. All articles for the laundry should be marked with the owner's name.



## BOARDING.

All students from a distance will occupy rooms and will board in the Academy, except for reasons jointly satisfactory to the President of the University and the Principal of the Academy.

The Principal and his family, the Instructors and the Matron, live in the building, take their meals with the boarders, and strive in all possible ways to secure the welfare and happiness of the students. The Instructors occupy rooms adjacent to the students' apartments. The appointments of the Dining Room, the character of the table supplies, the household service in general, are designed to furnish the comforts of a first-class boarding house. So far as may be warranted by the gentlemanly deportment of the students, there will be absent from the home-life of the school all needless uniformity and irksome limitations, which disregard the reasonable individual preferences of pupils.

The Academy gives to furnished rooms daily and complete attention, provides and washes all bedding and bed clothing, and supplies and cares for all lights.

Engagements for board and rooms are expected to continue without change to the end of the school year for which they are made.

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## APPLIANCES.

The Academy is in possession of excellent apparatus for instruction. A select Reference Library, containing an Encyclopedia, Lexicons, Dictionaries, Atlases, and various other helps, is accessible to students at all hours. The Classical Recitation Room is provided with Kiepert's Wall Maps of Ancient Geography, and with Reinhard's Album of Classical Antiquities, mounted. Metric apparatus, Maps and Globes render assistance in other directions.

The Physical apparatus of the College also is accessible to the class in Natural Philosophy for purposes of experiment and illustration.

The books of the College Library are available for all students.

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## STUDY ROOM.

In order to insure favorable conditions of study, the Academy maintains a public study room for the use of day-pupils and such boarding pupils as are thereby better accommodated in the preparation of their lessons. This room is under the constant supervision of the proctor or one of the instructors of the Academy. Except when engaged in recitation, day pupils and such others as are assigned thereto, are required to occupy seats in the study-room during the day study hours, unless excused for good reason. A record of such attendance is kept, and enters into the pupil's standing at the end of the term.

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## HOURS.

The time devoted to study and recitation amounts to nine hours every week-day, except Saturday, when it is only one hour. This time should be

sacred to its purpose. Parents of the day pupils are requested to coöperate with the school in securing attention to evening study hours, and to avoid furnishing excuses or granting occasions for absence.

Students from a distance should be in Lewisburg on the day preceding the opening of each term, and no student should leave until the term has closed. Punctuality in attendance is essential to success in school work.

For terms and vacations see Calendar of the University.

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## STANDING AND PROMOTIONS.

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The weekly averages of marks for recitations are recorded, and also failures in conduct and attendance. The scale for such markings ranges from 10, or perfect, to 0, or inexcusable failure. Unexcused absences count as zero.

Monthly and Term examinations are held in the studies thus far completed, and term reports of the average in scholarship, attendance, and conduct of each student are sent to parents or guardians by the Principal.

No student is promoted to the next higher class whose average in any study is less than 7.

Students who complete the Preparatory Courses of Study are admitted to standing in corresponding divisions of the Freshman Class in the College, upon the Principal's certificate, without examination.

All students who complete in a satisfactory manner either the Classical or the Scientific Course of Study, and who have sustained irreproachable characters during their school residence, shall be entitled to a certificate setting forth their proficiency in the branches studied.

Students attaining an average standing of 9 are encouraged to take work additional to the Regular Courses of Study.

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## PRIZES.

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### THE HARRY S. HOPPER PRIZE.

Mr. Harry S. Hopper, of Philadelphia, Chairman of the Board of Trustees, offers an annual prize of ten dollars for excellence in Composition.

This prize for 1894 was awarded to Edward Flint.

### THE REV. D. P. LEAS PRIZE.

Rev. David P. Leas, of Philadelphia, Treasurer of Bucknell University, offers an annual prize of ten dollars to that member of the Third Form who shall excel in the Annual Exhibition of the Third Form in Declamation.

This prize in 1894 was awarded to G. Livingston Bayard.

### THE WILLIAM E. MARTIN PRIZE.

Professor William E. Martin offers an annual prize of ten dollars to that member of the Fourth Form who shall pronounce the best oration at the Academic Graduating Exhibition.

This prize for 1894 was awarded to Charles Arthur Lindermann.



## LITERARY SOCIETIES.

**Hermenia; Adelpia.**—These are voluntary organizations of students for mutual improvement in Literary and Oratorical exercises. They have large and convenient halls in the Academy building, where they hold their meetings on Friday evenings.

## RELIGIOUS SERVICES.

The duties of each day are opened with devotional exercises in Bucknell Hall, at which all students are required to be present.

Regular attendance upon public worship at some Church in town on Sunday morning is required; also upon services on Thanksgiving Day, and the Day of Prayer for Colleges. Attendance upon Sunday schools and mid-week prayer-meetings, while voluntary, is strongly urged upon students.

The Academic students maintain a branch of the Young Men's Christian Association, which holds a weekly prayer-meeting on Tuesday evenings.

## EXPENSES.

	<i>Per Annum.</i>
Tuition, Board, Furnished Rooms, Heat, Lights, Care, Washing and Incidentals, - - - - -	\$230 00
Tuition, Board, Unfurnished Rooms, Heat, Washing, and Incidentals, - - - - -	185 00
Tuition, and Incidentals to Day Pupils, - - - - -	55 00

All charges are payable to the Registrar of the University in advance, at the beginning of each term, or by the 15th of September, January and April.

No student is entitled to his place in his class until he has made settlement for the term bills.

An extra charge will be made for washing more than twelve pieces per week.

If a student occupy a room by himself the charges for room-rent will be doubled.

Free scholarships covering tuition are provided in all the Departments of the University for the children of Ministers of the Gospel *in actual service*.

The expenses for Music and Printing for Exhibitions and Anniversary occasions are paid by the classes for which such expenses are incurred.

For information respecting the Academy, address the President of the University, John H. Harris, Ph. D., LL.D., or the Principal, Thomas A. Edwards, A. M.



# THE INSTITUTE.

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## INSTRUCTORS AND OTHER OFFICERS.

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JOHN HOWARD HARRIS, PH. D., LL. D.,

PRESIDENT OF THE UNIVERSITY, AND INSTRUCTOR IN PSYCHOLOGY AND ETHICS.

Mrs. KATHERINE B. LARISON, A. M., PRINCIPAL,

AND INSTRUCTOR IN LITERATURE.

FRANCES MARY RUSH, A. M.

ENGLISH AND MATHEMATICS.

ELYSEE AVIRAGNET, A. M., MUS. DOC.,

VOCAL AND INSTRUMENTAL MUSIC AND THE ROMANCE LANGUAGES.

CANDACE WOOD,

DRAWING AND PAINTING.

HARRIET CLARE ARMITAGE,

ENGLISH, ELOCUTION AND GYMNASTICS.

JULIET AIKEN,

INSTRUMENTAL MUSIC.

ELIZABETH COLLINS EDDELMAN, B. S.,

LATIN AND GERMAN.

MINNIE GOULD,

VOCAL MUSIC.

IONA MORGAN,

ASSISTANT IN MUSIC.

ALBERT BURNS STEWART, A. M.,

MATHEMATICS.

GEORGE ELMER FISHER, PH. B.,

SCIENCE.

LLEWELLYN PHILLIPS, A. B.,

GREEK.

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WILLIAM CHRISTIAN GRETZINGER, PH. B.,  
REGISTRAR OF THE UNIVERSITY.

ELIAS REYNOLDS,  
CARE OF INSTITUTE GROUNDS AND BUILDINGS.

MRS. ELIAS REYNOLDS,  
MATRON.

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## DIRECTORY OF THE ALUMNÆ.

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### OFFICERS OF THE ALUMNÆ.

*President*, MRS. J. VAN VALZAH.

*Vice-President*, MRS. W. M. GINTER.

*Recording Secretary*, MISS ELLA LAWSHE.

*Corresponding Secretary*, MRS. DAVID MYERS, Lewisburg, Pa.

*Treasurer*, MRS. D. B. MILLER.

*Board of Managers*,

THE OFFICERS OF THE ASSOCIATION, AND MRS. KATHERINE B. LARISON AND  
MRS. W. E. MARTIN.

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### OFFICERS OF THE LEWISBURG ALUMNÆ CLUB.

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*Secretary*, MISS ANNIE EVANS.

*Treasurer*, MISS FLORENCE A. VAN DYKE.

*Correspondent with Philadelphia Alumnæ Club*, MISS MARY BARTOL.

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### OFFICERS OF THE PHILADELPHIA ALUMNÆ CLUB.

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*Vice-President*, MRS. M. P. TUSTIN.

*Recording Secretary*, MISS JESSIE JONES.

*Corresponding Secretary*, MISS S. A. REED, 2025 Brandywine Street,  
Philadelphia, Pa.

*Treasurer*, MRS. E. L. WAKELIN.

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The Principal of the Institute will esteem it a favor if any graduate who changes her residence will give notice of her new address. She will also be grateful for any information that will assist in making the directory of the graduates complete, or serve for future editions of the triennial catalogue.

## STUDENTS.

## GRADUATE STUDENTS.

NAME.	RESIDENCE.	ROOM.
ELIZABETH TOWER BATES,	<i>Lewisburg.</i>	Hon. S. D. Bates.
ANNIE GUNDY,	<i>Lewisburg.</i>	Home.

## THE SENIOR YEAR.

NAME.	RESIDENCE.	ROOM.
FRANCES MOORE BAKER,	<i>Lewisburg.</i>	J. T. Baker, Esq.
MARY HOWARD BAKER,	<i>Lewisburg.</i>	J. T. Baker, Esq.
ELIZABETH ESTELLE BRUBAKER,	<i>Mifflinburg.</i>	Institute.
JENNIE DAVIS,	<i>Camden, N. J.</i>	Institute.
IRENE CARRIE ELLIS,	<i>Jersey Shore.</i>	Rev. J. R. Merriman.
LAURA FAGUE,	<i>Hughesville.</i>	Institute.
BESSIE VIOLA FREAS,	<i>Scranton.</i>	Institute.
AUGUSTA JOSEPHINE HANNA,	<i>Lock Haven.</i>	Institute.
EMMA BEULAH HAYES,	<i>Lewisburg.</i>	Hon. Alfred Hayes.



NAME.	RESIDENCE.	ROOM.
STELLA REBECCA HOUGHTON,	<i>Lewisburg.</i>	Mr. J. W. Houghton.
MARY MATLACK,	<i>Lewisburg.</i>	Mrs. Emma J. Matlack.
EDITH ELIZABETH SCHAFFER,	<i>Derry Church.</i>	Institute.
GRACE SLIFER,	<i>Lewisburg.</i>	Mrs. C. V. Slifer.
ALICE SNOWDON,	<i>Hughesville.</i>	Institute.
FLORENCE VIRGINIA STONER,	<i>Sunbury.</i>	Institute.
MARY ALICE THORNTON,	<i>Lewisburg.</i>	Dr. T. C. Thornton.
MARY ELIZABETH WILSON,	<i>Lewisburg.</i>	Mr. Thomas Wilson.

#### FOURTH YEAR CLASS.

NAME.	RESIDENCE.	ROOM.
LAURA LOUISA ALLEN,	<i>Coudersport.</i>	Mrs. C. V. Slifer.
BELLE BARTOL,	<i>Lewisburg.</i>	Prof. Wm. C. Bartol.
MIRIAM ADLUM BUCHER,	<i>Lewisburg.</i>	Hon. J. C. Bucher.
FANNIE MARGARET CASE,	<i>Lewisburg.</i>	Mr. Charles R. Case.
MARY MARGARET CRAIG,	<i>Rimersburg.</i>	Rev. I. W. Hendricks.
ESTHER MCKINSTRY GREENE,	<i>Saltillo.</i>	Institute.
KATHERINE MOTT JOHNSON,	<i>Lewisburg.</i>	Prof. B. R. Johnson.
MARILLA EMILY JONES,	<i>Williamsport.</i>	Institute.
GERTRUDE ELEANOR KASE,	<i>Danville.</i>	Institute.

NAME.	RESIDENCE.	ROOM.
EMMA ELIZABETH KUNKLE,	<i>Newberry.</i>	Prof. Wm. G. Owens.
SARA NORTHRUP LILLIBRIDGE,	<i>Olyphant.</i>	Institute.
ANNA FLORENCE MCCLOSKEY,	<i>Buffalo, N. Y.</i>	Institute.
MARY ELIZABETH MOORHEAD,	<i>Lewisburg.</i>	Rev. I. N. Moorhead.
RACHEL JANE NOLL,	<i>Lewisburg.</i>	Mr. Martin Noll.
ELIZABETH JOSEPHINE NOYES,	<i>Westport.</i>	Institute.
MARGARET OLIVIA ROSS,	<i>Mifflinburg.</i>	Institute.
ELIZABETH WILHELMINA SPETTIGUE,	<i>Wilcox.</i>	Institute.
BERTHA CELESTINE WATKINS,	<i>Scranton.</i>	Institute.
MARY OLIVE WILLIAMSON,	<i>Salladasburg.</i>	Mrs. Elizabeth Pross.

### THE THIRD YEAR.

NAME.	RESIDENCE.	ROOM.
LOUISE HENRIETTA ATHA,	<i>Newark, N. J.</i>	Institute.
MABEL EFFIE BATTEN,	<i>Auburn, N. J.</i>	Institute.
ELBINA LAVINIA BENDER,	<i>Lewisburg.</i>	Mr. Geo. J. Bender.
SARAH MARTHA BLACK,	<i>Lewisburg.</i>	Mrs. Annie M. Black.
GERTRUDE ELECTA CHURCH,	<i>Union City.</i>	Institute.
RUTH NEVA DAVIS,	<i>Lewisburg.</i>	Rev. L. C. Davis.
ANNA CURZON JUDD,	<i>Lewisburg.</i>	Rev. J. T. Judd.

NAME.	RESIDENCE.	ROOM.
MARY ANNA KLINE,	<i>Winfield.</i>	Mr. Geo. M. Kline.
EMMA JOSEPHINE LAWSHE,	<i>Lewisburg.</i>	Mr. Robt. A. Lawshe.
EMMA MADDEN,	<i>Saltillo.</i>	Institute.
ELIZA JOHNSTON MARTIN,	<i>Lewisburg.</i>	Prof. W. E. Martin.
FRANCES WHITE MCFADDEN,	<i>Long Branch, N. J.</i>	Mr. T. G. Evans.
ANNA RUBETTA MOORHEAD,	<i>Lewisburg.</i>	Rev. I. N. Moorhead.
MINNIE CATHERINE MORRIS,	<i>Philadelphia.</i>	Institute.
MARGUERITE O'DONNELL,	<i>Texarkana, Ark.</i>	Institute.
VIOLA HARRIET PENSYL,	<i>Elysburg.</i>	Institute.
GERTRUDE WILBURN ROSS,	<i>Lewisburg.</i>	Charles Ross.
LULA EUDORA SANDERS,	<i>Milton.</i>	Home.
EMMA DIRUF SEILER,	<i>Lewisburg.</i>	Mrs. Carl Seiler.
JENNIE ADELPHINE SIMPSON,	<i>Clifford.</i>	Institute.
JESSIE THAKLA STEINER,	<i>Lewisburg.</i>	Mr. F. Steiner.
KATHERINE ANN THOMAS,	<i>Frostburg, Md.</i>	Institute.
MARGARET ALICE THOMAS,	<i>Frostburg, Md.</i>	Institute.
MABEL WELLS,	<i>Wilcox.</i>	Institute.
MABELLE ADA WILLIAMS,	<i>Ridgway.</i>	Institute.





## SECOND YEAR.

NAME.	RESIDENCE.	ROOM.
CATHERINE RUTH BOWER,	<i>Lewisburg.</i>	F. E. Bower, Esq.
FLORENCE MOTT COOKE,	<i>Greeley, Col.</i>	Institute.
ELIZABETH LUCY CRAMER,	<i>Cramer Hill, N. J.</i>	Institute.
MARIA MAUD GODDARD,	<i>Philadelphia.</i>	Institute.
LYDIA ANN WATTS HACKENBERG,	<i>Northumberland.</i>	D. S. Hackenberg.
EDITH AGNES HARTLEY,	<i>Lewisburg.</i>	Rev. Wm. Hartley.
EUDORA BLAIR HASSENPLUG,	<i>Lewisburg.</i>	C. H. Hassenplug.
ANNA DELL HUNT,	<i>Oakdale, N. J.</i>	Institute.
SARAH ETHEL JUDD,	<i>Lewisburg.</i>	Rev. John T. Judd.
MARY FRANCES MARR,	<i>Westphalia, Md.</i>	Institute.

## FIRST YEAR.

NAME.	RESIDENCE.	ROOM.
NELLIE LOUISE EARLE,	<i>Lewisburg.</i>	Rev. I. N. Earle.
ELIZABETH EVANS,	<i>Freeland.</i>	Institute.

# SPECIALS.

NAME.	RESIDENCE.	ROOM.
HENRIETTA FRANCES ALLEN,	<i>Allenwood.</i>	Mrs. H. F. McCarty.
FLORENCE LILLIAN DALE,	<i>Wilmington, Del.</i>	Prof. W. C. Bartol.
KATE STEWART DAVIS,	<i>Milton.</i>	Institute.
LAURA MARGARET DEPPEN,	<i>Trevorton.</i>	Institute.
TABITHA JOSEPHINE FARWELL,	<i>Chatham's Run.</i>	Institute.
MARY ELIZABETH FOLLMER,	<i>Lewisburg.</i>	Alfred C. Follmer.
ELIZA GRACE GUNDY,	<i>Lewisburg.</i>	John A. Gundy.
SUSAN JONES,	<i>Mahanoy Plane.</i>	Institute.
MARY LARISON,	<i>Ringoos, N. J.</i>	Institute.
BIRDIE FRANCES MCHENRY,	<i>Exchange.</i>	Mrs. W. Gibson.
LAURA MCNITT,	<i>Reedsdale.</i>	Institute.
MYRTLE ALICE MILLER,	<i>Muncy Valley.</i>	Institute.
GERTRUDE EDITHA MORGAN,	<i>West Pittston.</i>	Institute.
MARY NETA MOYER,	<i>Milton.</i>	Institute.
MARGARET ISABELLE NORTON,	<i>Lewisburg.</i>	Thos. G. Norton.
NETTIE PARKHURST,	<i>Kane.</i>	Charles Roos.
CLARISSA FISHER RUSSELL,	<i>Lewisburg.</i>	T. Frank Russell.
OLIVIA JENNIE SILVERS,	<i>Lambertville, N. J.</i>	Institute.

NAME.	RESIDENCE.	ROOM.
MYRTLE SMITH,	<i>Driftwood.</i>	Institute.
MINNIE VISICK,	<i>Strong.</i>	Institute.
ELIZABETH COOK WALKER,	<i>Elkland.</i>	Institute.
BLANCHE MAY WHITLEY,	<i>Mifflinburg.</i>	Institute.
LEOTA BELLE WILSON,	<i>Mifflinburg.</i>	Institute.

### SUMMARY.

Graduate Students .....	2
Seniors.....	17
Fourth Year.....	19
Third Year.....	25
Second Year.....	10
First Year.....	2
Special.....	23
	—
Total.....	98





## SCHOOL OF MUSIC.

### PIANO.

NAME.	RESIDENCE.
LOUISE HENRIETTA ATHA .....	Newark, N. J.
ELBINA LAVINIA BENDER .....	Lewisburg.
LENA BURKE .....	Northumberland.
MARY EVANS CHAMBERS .....	West Chester.
MARY COTTON .....	Lewisburg.
MARY MARGARET GRAIG .....	Rimersburg.
GERTRUDE ELECTA CHURCH .....	Union City.
FLORENCE LILLIAN DALE .....	Wilmington, Del.
ELIZABETH DARLINGTON .....	Lewisburg.
RUTH NORA DAVIS .....	Lewisburg.
LAURA MARGARET DEPPEN .....	Trevorton.
ELIZABETH EVANS .....	Freeland.
LAURA FAGUE .....	Hughesville.
KATE HARVEY .....	Lewisburg.
ANNA HALFPENNY .....	Lewisburg.
JENNIE HIMMELREICH .....	Lewisburg.
FRANK WATTERSON JACKSON .....	Ohiopyle.
ELIZABETH KELLY .....	Lewisburg.
MARY LARISON .....	Ringoes, N. J.
EMMA JOSEPHINE LAWSON .....	Lewisburg.
MARIE LEISER .....	Lewisburg.
CHAS. KENNEDY MCCORMIC .....	Uniontown.
GRAHAM MARR .....	Shamokin.
MYRTLE ALICE MILLER .....	Muncy Valley.
MARY FRANCES MARR .....	Westphalia, Md.
GERTRUDE EDITHA MORGAN .....	West Pittston.
MARY NETA MOYER .....	Milton.
FRANCES WHITE MCFADDIN .....	Long Branch, N. J.

NAME.	RESIDENCE.
ANNA FLORENCE McCLOSKEY .....	Buffalo, N. Y.
ANNIE NOAKER.....	Milton.
MARGUERITE O'DONNELL.....	Texarkana, Ark.
NETTIE PARKHURST.....	Kane.
WILLIAM PAWLING .....	Lewisburg.
ANNA MAY RODGERS .....	Allentown.
MINNIE SANDEL.....	Lewisburg.
EDITH ELIZABETH SCHAFER.....	Derry Church.
LOUISE SEILER .....	Lewisburg.
JOHN SHAW .....	Lewisburg.
OLIVIA JENNIE SILVER.....	Lambertville.
MYRTLE SMITH.....	Driftwood.
ALICE SNOWDON.....	Hughesville.
EDNA EUDOLPHIA STIFLER.....	Chester.
JESSIE THAKLA STEINER .....	Lewisburg.
MARY ALICE THORNTON.....	Lewisburg.
MINNIE VISICK .....	Strong.
MARY VORIS.....	Lewisburg.
ELIZABETH COOK WALKER.....	Elkland.
BERTHA CELESTINE WATKINS.....	Scranton.
LIZZIE WATERS.....	East Lewisburg.
BLANCHE MAY WHITLEY .....	Mifflinburg.
LEOTA BELLE WILSON .....	Mifflinburg.

### PIPE ORGAN.

NAME.	RESIDENCE.
ELBINA LAVINIA BENDER.....	Lewisburg.
FLORENCE LILLIAN DALE.....	Wilmington, Del.
ELIZABETH KELLY.....	Lewisburg.
WILLIAM KLECKNER.....	Vicksburg.
NETTIE PARKHURST.....	Kane.
CARLINO SEILER.....	Lewisburg.
OLIVIA JENNIE SILVERS ..	Lambertville, N. J.
MARY ALICE THORNTON.....	Lewisburg.
MINNIE VISICK.....	Strong.
ELIZABETH COOK WALKER.....	Elkland.

## VOICE CULTURE.

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NAME.	RESIDENCE.
LOUISE HENRIETTA ATHA.....	Newark, N. J.
MARGARET BAKER.....	Lewisburg.
WILLARD MAINE BUNNELL.....	Montrose.
JENNIE DAVIS.....	Camden, N. J.
LAURA MARGARET DEPPEN.....	Trevorton.
ESTHER MCKINSTRY GREENE.....	Saltillo.
CARRIE HOFFA.....	Kelly's Point.
ZORA HUGHES.....	Watson town.
SUSAN JONES.....	Mahanoy City.
EMMA ELIZABETH KUNKLE.....	Newberry.
JAMES DEMOREST MACNAB.....	Brooklyn, N. Y.
MYRTLE ALICE MILLER....	Muncy Valley.
CHARLES PAUL MEEKER.....	Nicetown.
GERTRUDE EDITHA MORGAN.....	West Pittston.
MARGUERITE O'DONNELL.....	Texarkana, Ark.
GERTRUDE SIEBER.....	Lewisburg.
EDNA EUDOLPHIA STIFLER.....	Chester.
EDITH ELIZABETH SCHAFER.....	Derry Church.
NELLIE TAYLOR.....	Factoryville.
MARY VORIS.....	Lewisburg.
LEOTA BELLE WILSON.....	Mifflinburg.
JULIA WEIDENSAUL.....	Lewisburg.
MARY OLIVE WILLIAMSON.....	Salladasburg.
BENJAMIN MEADE WAGENSELLER .....	Selinsgrove.

## HARMONY.

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NAME.	RESIDENCE.
ELBINA LAVINIA BENDER.....	Lewisburg.
ADDISON BARTHOLOMEW BOWSER.....	Danville.
MARY MARGARET CRAIG.....	Rimersburg.



NAME.	RESIDENCE.
FLORENCE LILLIAN DALE.....	Wilmington, Del.
LAURA MARGARET DEPPEN.....	Trevorton.
ELIZABETH KELLY.....	Lewisburg.
WILLIAM KLECKNER.....	Vicksburg.
ANNA FLORENCE MCCLOSKEY.....	Buffalo, N. Y.
MARY NETA MOYER.....	Milton.
NETTIE PARKHURST.....	Kane.
WILLIAM PAWLING.....	Lewisburg.
MYRTLE SMITH.....	Driftwood.
MINNIE VISICK.....	Strong.
ELIZABETH COOK WALKER.....	Elkland.
BLANCHE MAY WHITLEY.....	Mifflinburg.
LEOTA BELLE WILSON.....	Mifflinburg.

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## VIOLIN.

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NAME.	RESIDENCE.
GEORGE DYSON BOWERS.....	Chester.
LENA BURKE.....	Northumberland.
LUTHER DONACHY.....	Lewisburg.
RUTH NORA DAVIS .....	Lewisburg.
MARY REBECCA EDDelman.....	Greensburg, Ind.
SARAH ETHEL JUDD .....	Lewisburg.
JESSE CORNELIA HIGGINS.....	Lewisburg.
WILLIAM KLECKNER .....	Vicksburg.
LOUISE LAWSHE.....	Lewisburg.
MARY FRANCES MARR.....	Westphalia, Md.
FRANCIS WHITE MCFADDIN.....	Long Branch, N. J.
JAMES BROWN MARTIN .....	Lewisburg.
MARY NETA MOYER.....	Milton.
EDWIN NESBIT .....	Lewisburg.
ANNIE NOAKER .....	Milton.
EDNA SHIRES.....	Limestownville.
ALICE SNOWDEN.....	Hughesville.
MINNIE VISICK .....	Strong.
SAMUEL WITTENMYER....	Middleburg.

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## VIOLA.

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NAME.

RESIDENCE.

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NELLIE TAYLOR .....Factoryville.

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## VIOLONCELLO.

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NAME.

RESIDENCE.

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RAY WENDELL .....Lewisburg.

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## DOUBLE BASS.

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NAME.

RESIDENCE.

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OLIVIA JENNIE SILVERS .....Lambertville, N. J.

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## GUITAR.

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NAME.

RESIDENCE.

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LAURA MARGARET DEPPEN .....Trevorton.  
 LAURA FAGUE..... Hughesville.  
 TABITHA JOSEPHINE FARWELL .....Chatham's Run.  
 OLIVIA JENNIE SILVERS..... Lambertville, N. J.

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## MANDOLIN.

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NAME.	RESIDENCE.
LOUISE LAWSHE .....	Lewisburg.
ELIZABETH COOK WALKER.....	Elkland.
MINNIE VISICK .....	Strong.

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## CLARINET.

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NAME.	RESIDENCE.
WILLARD MAINE BUNNELL .....	Montrose.
PETER BODINE CREGAR.....	Annandale, N. J.
JAMES BROWN MARTIN.....	Lewisburg.
HERBERT BALDWIN MOYER .....	Norristown.
HENRY ELMER STABLER .....	Warrensville.

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## CORNET AND HORN.

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NAME.	RESIDENCE.
ENOS COOK BAKER, JR.....	Ercildown.
HENRY S. BOURN.....	Danville.
BENJAMIN KANE BRICK.....	Marlton, N. J.
FRED LAMBERT CAMP .....	Union City.
JOSEPH CALDWELL CAREY .....	Glen Loch.
CARLTON CHAPPELL COMFORT.....	
THOMAS E. COOPER.....	Union City.
FOSTER CALVIN FISHER.....	Salem.
QUIRAF HARLAN.....	Washington, D. C.



NAME.	RESIDENCE.
HERBERT FREDERIC HARRIS.....	Lewisburg.
FRANK WATTERSON JACKSON.....	Ohiopyle.
JAMES DEMOREST MACNAB.....	Brooklyn, N. Y.
WILLIAM LAURENCE MILES.....	Fleming.
ERVIN RUSSELL POWELL.....	Sewickley.
FRANK MORTON SIMPSON.....	Clifford.
HARRY THOMAS SPRAGUE.....	Lewisburg.
AMOS THOMAS WILLIAMS.....	Ridgway.

SUMMARY.

Piano.....	51
Organ.....	10
Voice Culture.....	24
Harmony.....	16
Violin.....	19
Viola.....	1
Violoncello.....	1
Guitar.....	4
Mandolin .....	3
Clarinet .....	5
Cornet and Horn.....	17
Total.....	151
Names Repeated.....	48



## CLASS IN ART.

NAME.

RESIDENCE.

BRYANT EVANS BOWER.....	Lewisburg.
CATHERINE RUTH BOWER .....	Lewisburg.
THOMAS REESE BOWER .....	Lewisburg.
EMILY CLINGAN.....	Lewisburg.
ELIZABETH LUCY CRAMER.....	Cramer Hill, N. J.
WILHELMINA DARLINGTON.....	Lewisburg.
LAURA MARGARET DEPPEN .....	Trevorton.
ANNIE EVANS .....	Lewisburg.
IDA GERTRUDE GREENE.....	Saltillo
TILLIE KESSINGER.....	Mifflinburg.
MARY LARISON.....	Ringoes, N. J.
EMMA MADDEN.....	Saltillo
LAURA MCNITT.....	Reedsville.
MARY NOETLING.....	Selinsgrove.
VIOLA HARRIET PENSY .....	Elysburg.
GRACE REISCH.....	Mifflinburg.
LEVI LORE RIGGIN .....	Port Norris, N. J.
MARGARET OLIVIA ROSS.....	Mifflinburg.
FLORENCE SMITH .....	Lewisburg.
ELIZABETH WILHELMINA SPETTIGUE.....	Wilcox.
HATTIE VORIS.....	Pottsgrove.
MABEL WELLS.....	Wilcox.
BELLE WHITMER.....	Sunbury.



## PRIVATE LESSONS IN ELOCUTION.

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NAME.	RESIDENCE.
<hr/>	
EUDORA BLAIR HASSENPLUG .....	Lewisburg.
GEORGE L. LEBKICHER.....	Mifflinburg.
MARGARET WAGNER .....	Lewisburg.
MABELLE ADA WILLIAMS.....	Ridgway.

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## GENERAL SUMMARY.

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Institute Courses.....	98
School of Music.. .....	103
School of Art.....	23
Elocution (Special).....	4
(Names not repeated) ... ..	31
Total.....	129
Other Departments.....	235
Total in all Departments.....	384





## COURSE OF STUDY.

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The Bucknell Institute offers to young women three courses of study, each extending over five years. Students are admitted to advanced standing, if, upon examination, they are found to have satisfactory knowledge of the branches which the class they propose to enter has already completed.

### I. THE LITERARY COURSE.

The Literary Course embraces, in MATHEMATICS, Arithmetic, common and advanced, Algebra and Geometry, plane and solid, and Higher Algebra, Trigonometry and Analytical Geometry as electives; in LATIN, two years *required*, and a third year elective with German or French; in GERMAN and FRENCH, one year each or two of either; and in ITALIAN and SPANISH, an optional course under the instruction of M. Elysée Aviragnet; in SCIENCE, Physical Geography, Botany, Astronomy, Physics, Physiology, Chemistry and Geology. In these branches the students have the advantages afforded by the College Observatory, Laboratory and Museum. The course also includes Rhetoric, Composition, Civil Government, Psychology and Ethics.

Special attention is given to History and Literature, to the former of which six, and to the latter three, terms are devoted.

### II. THE CLASSICAL COURSE.

The Classical Course embraces, in MATHEMATICS, Arithmetic, Algebra, Geometry, plane and solid, University Algebra, Trigonometry and Analytical Geometry; in LATIN, Grammar and Composition, Cæsar, Vergil, Cicero's Orations, Cicero de Senectute et de Amicitia, Livy and Paternulus, in all, four years; in GREEK, Grammar and Composition, Xenophon's Anabasis, Homer's Iliad, Lysias' Orations, Herodotus, Homer's Odyssey, and the Greek Testament, in all, three years; in HISTORY, General History, and Greek and Roman History.

Students who complete the Classical Course are admitted to the Sophomore Class in College as candidates for the first degree in Arts.

### III. THE LATIN SCIENTIFIC COURSE.

The Latin Scientific Course corresponds to the Classical Course, except that scientific students are substituted for the first two years of Greek, and German for the third year of Greek.

Students who complete the Latin Scientific Course are admitted to the Sophomore Class in College as candidates for the first degree in Philosophy.

#### IV. THE ECLECTIC COURSE.

**The Eclectic Course.**—For those who do not intend to pursue a Regular Course of Study, but desire to select certain special branches, the Institute will, subject to necessary restrictions, provide such studies as they may elect and for which they show themselves qualified, but only in connection with the recitations of the regular classes.



## CURRICULA.\*

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### I. THE LITERARY COURSE.

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#### YEAR.

When the medical colleges inaugurated a four years' course, they arranged to admit to the second year, graduates of colleges, or students of colleges, who have completed certain specified branches. BUCKNELL UNIVERSITY affords thorough preparation in these subjects, and students prepared here are admitted to the second year of the best medical colleges. Further information concerning the courses preparatory to medicine can be had by applying to WILLIAM C. GRETZINGER, Registrar of Bucknell University at Lewisburg, Pa.

Wentworth,  
Barnes,  
Outlines and Exercises.

Wentworth.  
Barnes,  
Outlines and Exercises.

Wentworth,  
Barnes,  
Whitney's Essentials.

#### D YEAR.

Tuell and Fowler,  
Allen and Greenough,  
Hill's Elements,  
Wentworth.

Tuell and Fowler,  
Allen and Greenough,  
Myers,  
Bryant.

Harper and Tolman,  
Appleton,  
Gray,  
Myers.

#### I YEAR.

Harper and Tolman,  
Sharpless and Philips,  
Guest.

#### 3 FOR ADMISSION.

Credentials from Graded Schools accepted in the studies of the First and Second Years.

Credentials accepted for the Third, Fourth and Senior Years from schools whose curricula are equivalent to that of Bucknell Institute; also from accredited private teachers, in studies which are *continued* after entrance.

No pupil under 12 years of age will be received into the school.



Students who complete the Latin Scientific Course are admitted to the Sophomore Class in College as candidates for the first degree in Philosophy.

#### IV. THE ECLECTIC COURSE.

**The Eclectic Course.**—For those who do not intend to pursue a Regular Course of Study, but desire to select certain special branches, the Institute will, subject to necessary restrictions, provide such studies as they may elect and for which they show themselves qualified, but only in connection with the recitations of the regular classes.



## CURRICULA.\*

### I. THE LITERARY COURSE.

#### FIRST YEAR.

- |   |  |
|---|--|
| <b>I. TERM</b> —Arithmetic,<br>United States History,<br>English Grammar, | Wentworth,<br>Barnes,<br>Outlines and Exercises. |
| <b>II. TERM</b> —Arithmetic,<br>General History,<br>English Grammar,      | Wentworth.<br>Barnes,<br>Outlines and Exercises. |
| <b>III. TERM</b> —Arithmetic,<br>General History,<br>English Grammar,     | Wentworth,<br>Barnes,<br>Whitney's Essentials.   |

#### SECOND YEAR.

- |  |   |
|--|---|
| <b>I. TERM</b> —Latin—Lessons,<br>Grammar,<br>Rhetoric,<br>Higher Arithmetic,      | Tuell and Fowler,<br>Allen and Greenough,<br>Hill's Elements,<br>Wentworth. |
| <b>II. TERM</b> —Latin—Lessons,<br>Grammar,<br>History of Greece,<br>Book-Keeping, | Tuell and Fowler,<br>Allen and Greenough,<br>Myers,<br>Bryant.              |
| <b>III. TERM</b> —Cæsar,<br>Physical Geography,<br>Botany,<br>History of Rome,     | Harper and Tolman,<br>Appleton,<br>Gray,<br>Myers.                          |

#### THIRD YEAR.

- |   |  |
|---|--|
| <b>I. TERM</b> —Cæsar,<br>Natural Philosophy,<br>English History, | Harper and Tolman,<br>Sharpless and Philips,<br>Guest. |
|---|--|

#### \*REQUIREMENTS FOR ADMISSION.

Credentials from Graded Schools accepted in the studies of the First and Second Years.

Credentials accepted for the Third, Fourth and Senior Years from schools whose curricula are equivalent to that of Bucknell Institute; also from accredited private teachers, in studies which are *continued* after entrance.

No pupil under 12 years of age will be received into the school.

- |  |  |
|--|--|
| II. TERM—Vergil,<br>Algebra,<br>Astronomy,         | Harper and Miller,<br>Sheldon,<br>Sharpless and Philips. |
| III. TERM—Vergil,<br>Algebra,<br>Civil Government, | Harper and Miller,<br>Sheldon,<br>Cocker.                |

## FOURTH YEAR.

- |   |  |
|---|--|
| I. TERM—Vergil, <i>or</i><br>German,<br>Algebra, Quadratics,<br>Physiology,                             | Harper and Miller,<br>Joynes-Meissner,<br>Sheldon,<br>Walker.                  |
| II. TERM—Cicero, <i>and</i><br>Latin Prose Composition, <i>or</i><br>German,<br>Geometry,<br>Chemistry, | Allen and Greenough,<br>Daniell,<br>Joynes-Meissner,<br>Wentworth,<br>Remsen.  |
| III. TERM—Cicero, <i>or</i><br>German, <i>and</i><br>German Composition,<br>Geometry,<br>Geology,       | Allen and Greenough,<br>Joynes-Meissner,<br>Harris,<br>Wentworth,<br>Le Conte. |

## SENIOR YEAR.

- |   |   |
|---|---|
| I. TERM—Psychology,<br>English Literature,<br>English Classics,<br>French, <i>or</i><br>German, <i>or</i><br>Higher Algebra,      | McCosh,<br>Outlines, and Pancoast,<br><br>Die Jungfrau von Orleans. |
| II. TERM—English Literature,<br>English Classics,<br>Solid Geometry,<br>French, <i>or</i><br>German, <i>or</i><br>Trigonometry,   | Outlines, and Pancoast,<br><br>Wentworth,<br><br>Wilhelm Tell.      |
| III. TERM—Ethics,<br>American Literature,<br>American Classics,<br>French, <i>or</i><br>German, <i>or</i><br>Analytical Geometry, | Hopkins,<br>Outlines,<br><br>Hermann und Dorothea.                  |



## II. THE CLASSICAL COURSE.

### FIRST YEAR.

- |   |  |
|---|--|
| I. TERM—Arithmetic,<br>United States History,<br>English Grammar, | Wentworth,<br>Barnes,<br>Outlines and Exercises. |
| II. TERM—Arithmetic,<br>General History,<br>English Grammar,      | Wentworth,<br>Barnes,<br>Outlines and Exercises. |
| III. TERM—Arithmetic,<br>General History,<br>English Grammar,     | Wentworth,<br>Barnes,<br>Whitney's Essentials.   |

### SECOND YEAR.

- |  |   |
|--|---|
| I. TERM—Latin—Lessons,<br>Grammar,<br>Rhetoric,<br>Higher Arithmetic,                            | Tuell and Fowler,<br>Allen and Greenough,<br>Hill's Elements,<br>Wentworth. |
| II. TERM—Latin—Lessons,<br>Grammar,<br>History of Greece,<br>Book-Keeping,                       | Tetlow,<br>Allen and Greenough,<br>Myers,<br>Bryant.                        |
| III. TERM—Cæsar's Commentaries,<br>Physical Geography,<br>Elementary Botany,<br>History of Rome, | Harper and Tolman,<br>Appleton,<br>Gray,<br>Myers.                          |

### THIRD YEAR.

- |  |   |
|--|---|
| I. TERM—Natural Philosophy,<br>Cæsar's Commentaries,<br>Greek—Lessons,<br>Grammar, | Sharpless and Phillips,<br>Harper and Tolman,<br>White,<br>Goodwin. |
| II. TERM—Algebra,<br>Vergil's Æneid,<br>Greek—Lessons,<br>Grammar,                 | Sheldon,<br>Harper and Miller,<br>White,<br>Goodwin.                |
| III. TERM—Algebra,<br>Vergil's Æneid,<br>Xenophon's Anabasis,                      | Sheldon,<br>Harper and Miller,<br>Kelsey.                           |

### FOURTH YEAR.

- |   |   |
|---|---|
| I. TERM—Algebra, Quadratics,<br>Latin—Vergil's Æneid,<br>Prosody,<br>Xenophon's Anabasis, | Sheldon,<br>Harper and Miller,<br>Harper and Miller,<br>Kelsey. |
|---|---|

- |  |  |
|--|--|
| <p>II. TERM—Plane Geometry,<br/>         Latin—Cicero's Orations,<br/>         Prose Composition,<br/>         Homer's Iliad,</p>  | <p>Wentworth,<br/>         Allen and Greenough,<br/>         Daniell,<br/>         Seymour.</p>  |
| <p>III. TERM—Plane Geometry,<br/>         Cicero's Orations,<br/>         Greek—Homer's Iliad,<br/>         Prose Composition,</p> | <p>Wentworth,<br/>         Allen and Greenough,<br/>         Seymour,<br/>         Woodruff.</p> |

#### SENIOR YEAR.

- |   |  |
|---|--|
| <p>I. TERM—Geometry,<br/>         Algebra,<br/>         Cicero de Senectute et de Am.,<br/>         Lysias' Orations,<br/>         Greek Prose Composition,</p> | <p>Practical Ethics,<br/>         Hygiene,<br/>         Elocution,<br/>         English Composition,<br/>         Lectures on the Essay.</p> |
| <p>II. TERM—Trigonometry,<br/>         Algebra,<br/>         Livy,<br/>         Herodotus and Thucydides,</p>   | <p>Greek Testament,<br/>         Derivatives,<br/>         Elocution,<br/>         English Composition.</p>                                  |
| <p>III. TERM—Analytical Geometry,<br/>         Paternulus,<br/>         Odyssey,<br/>         Greek Testament.</p>  | <p>Chemistry,<br/>         Elocution,<br/>         English Composition.</p>  |

### III. THE LATIN SCIENTIFIC COURSE.

#### FIRST YEAR.

- |  |   |
|--|---|
| <p>I. TERM—Arithmetic,<br/>         United States History,<br/>         English Grammar,</p> | <p>Wentworth,<br/>         Barnes,<br/>         Outlines and Exercises.</p> |
| <p>II. TERM—Arithmetic,<br/>         General History,<br/>         English Grammar,</p>      | <p>Wentworth,<br/>         Barnes,<br/>         Outlines and Exercises.</p> |
| <p>III. TERM—Arithmetic,<br/>         General History,<br/>         English Grammar,</p>     | <p>Wentworth,<br/>         Barnes,<br/>         Whitney's Essentials.</p>   |

#### SECOND YEAR,

- |  |  |
|--|--|
| <p>I. TERM—Latin—Lessons,<br/>         Rhetoric,<br/>         Higher Arithmetic,</p> | <p>Tuell and Fowler,<br/>         Hill's Elements,<br/>         Wentworth.</p> |
|--|--|

II. TERM—Latin—Lessons,  
Grammar,  
History of Greece,  
Book-Keeping,

Tuell and Fowler.  
Allen and Greenough,  
Myers,  
Bryant.

III. TERM—Cæsar,  
Physical Geography,  
Elementary Botany,  
History of Rome,

Harper and Tolman,  
Appleton,  
Gray,  
Myers.

### THIRD YEAR.

I. TERM—Cæsar's Commentaries,  
Natural Philosophy,  
English History,

Harper and Tolman,  
Sharpless and Philips,  
Guest.

II. TERM—Algebra,  
Vergil's Æneid,  
Astronomy,

Sheldon,  
Harper and Miller,  
Sharpless and Philips.

III. TERM—Algebra,  
Vergil's Æneid,  
Civil Government,

Sheldon,  
Harper and Miller,  
Cocker.

### FOURTH YEAR.

I. TERM—Algebra, Quadratics,  
Latin—Vergil's Æneid,  
Prosody,  
Physiology,

Sheldon,  
Harper and Miller,  
Allen and Greenough,  
Walker.

II. TERM—Plane Geometry,  
Latin—Cicero's Orations,  
Prose Composition,  
English Literature,

Wentworth,  
Allen and Greenough,  
Daniell,  
Outlines, and Pancoast.

III. TERM—Plane Geometry,  
Cicero's Orations,  
Geology,

Wentworth,  
Allen and Greenough,  
Le Conte,

### SENIOR YEAR.

I. TERM—Geometry,  
Algebra,  
Cicero de Senectute et de Am.,  
German,

Lectures on the Essay,  
Practical Ethics,  
Hygiene,  
Elocution,

English Composition.

II. TERM—Trigonometry,  
Algebra,  
German,

Derivatives,  
Elocution,  
English Composition,

Livy.

III. TERM—Analytical Geometry,  
Paterculus and Pliny,  
German,

Chemistry,  
Elocution,  
English Composition.



## METHODS OF INSTRUCTION.

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### I. PSYCHOLOGY AND ETHICS.

Psychology is taught by text-book and informal lectures. The relation of Psychology to education is made a special feature of the course.

The aim in the course in Ethics is to make the instruction as practical as possible. Hopkin's work on Ethics is used as a text-book.

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### II. ENGLISH.

**English Grammar.**—The aim is to enable the pupils to speak and write the English language with accuracy and force. No text-book is used, the instruction being inductive.

**Rhetoric** is taught as a practical aid to English Composition. Daily exercises in the various processes of Composition are required.

**English Literature** is taught by topical outlines, the elaboration of which depends upon a critical study of the master-pieces in English Literature, in connection with the lives and times of the writers. The books required for this work are found in the Institute Library.

The chief object in the course is to imbue each student with an ardent desire *to know* and *to value* the best thoughts of the greatest minds; and to clearly comprehend the relation of these thoughts to English Literature and the English race.

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### III. HISTORY.

**History.**—Six terms are devoted to this study. The text-book is supplemented by the topical method. Efforts are made to convince the learner that History is not mere facts in chronological order, but a record of the development of civilization.

**Civil Government** is taught as a preparation for intelligent citizenship. The origin and growth of our institutions, the functions of the various departments of the National, State and local governments; the political history of the people; the interpretation and construction of the Constitution, are presented and discussed.

#### IV. LATIN.

The method employed with beginners is the Inductive, the text of "Bel-  
lum Helvetium" being used as presenting a model of Latin. Paradigms  
of Declension and Conjugation, with the Principles of Syntax, are intro-  
duced gradually, after many illustrations. The same text is made the basis of  
English sentences to be translated into Latin, readiness in Latin Composition  
and a correct style being thus acquired.

The following courses are offered :

1. Latin Grammar and Lessons, two terms.
2. Cæsar : Gallic War, two terms.
3. Vergil : *Æneid*, three terms.
4. Cicero : Orations, two terms.
5. Cicero : *De Senecute* and Livy, one term.
6. Livy : Books XXI and XXII, one term.
7. Paternulus and Pliny, one term.

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#### V. THE GREEK LANGUAGE.

The first half year of the Third Year is spent in acquiring sufficient knowl-  
edge of forms and inflections to commence the study of Xenophon's *Anabasis*.  
During the last half year, special attention is given to the inflection and syntax  
of nouns, pronouns and adjectives. The reading of Xenophon is continued in  
the first term of the Fourth Year, and the forms and syntax of verbs made a  
special study. Homer is then read for one term and a half, and the difference  
between Homeric and Attic forms is noted. During the last half term Xeno-  
phon is reviewed, that the student may refresh his knowledge of Attic Greek,  
and may not find her transition to College needlessly difficult. Almost daily  
drill is given in turning into Greek, sentences based on the text of Xenophon.

The following courses in Greek are offered to students in the Classical  
Course :

1. Greek Lessons, two terms.
2. Xenophon : *Anabasis*, two terms.
3. Homer : *Iliad*, two terms.
4. Lysias : Orations, one term.
5. Herodotus : Selections, one term.
6. Homer : *Odyssey*, one term.
7. Greek New Testament.

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#### VI. THE MODERN LANGUAGES.

**French, Italian and Spanish.**—The Modern Languages are taught by com-  
paring them with the mother tongue of the pupil, if there be any relation

between them. If there is none, it is compared with the Latin and Greek Languages. In French, rules are taught by which the words that are not exactly the same in the two languages are easily made into French.

French Syntax is taught by examples and illustrations from readings. The grammar is taught from the language, and not the language from the grammar. Dictation exercises are given from "Whitney's Practical French."

As far as practical, French only is spoken in the class-room. Extracts are read from the best French Literature. Conversations are held in French on the readings, stories are related and compositions prepared in French by the pupil.

The aim is to teach the Modern Languages so that they can be spoken correctly.

The same method is used in teaching Spanish and Italian.

**German.**—In the study of German, the aim is to acquire a sufficient knowledge of the grammar and such a vocabulary as will conduce to facility in reading. As little English as practicable is used in the class-room, the rules, after frequent illustrations, being learned in the German Language. The committing to memory of poems, object lessons, and conversations on the text used, constitute the work of the first year; the reading of German Classics and German Composition are included in the second year's course.

## VII. MATHEMATICS.

**Arithmetic.**—The subject is taught primarily with the object of making practical arithmeticians. The minds of the pupils are kept free from set rules, formulæ and mechanical processes, while independent thought and logical analyses are constantly required.

**Algebra.**—Three terms are given to this subject. There is thorough drill in the fundamental operations, and the idea that these are simply the application of arithmetical processes to symbols of general value, is kept constantly in mind. The course includes Quadratic Equations, Theory of Exponents, Variation and Series.

**Geometry.**—The course includes Plane and Solid Geometry. Besides the demonstrations of theorems given in the text-book, original demonstrations and the solution of problems are required.

**Higher Algebra.**—Some time is given to the graphical representation of the relations of quantities. The topics discussed are: Progressions, Theory of Limits, Differentiation, Development of Functions into Series, Convergency and Summation of Series, Logarithms, Compound Interest and Annuities, Permutations and Combinations, Probability, Continued Fractions and the Theory of Equations. Differentiation is introduced as a means to clear and concise proofs of the Binomial Theorem, Logarithmic Series and Exponential Series.

**Trigonometry.**—The course includes Plane and Spherical Trigonometry. It is as extensive as that in our best schools, but does not include those discussions and investigations which are important for specialists only. Time is given



to the numerical illustration of principles, for the purpose of making sure that the meaning and use of formulæ, demonstrated and learned, are thoroughly understood.

**Analytical Geometry.**—The student will be taken through the elementary properties of the right line and the conic sections. There will be, in addition, a brief discussion of the general equation of the second degree, some important higher plane curves, and loci in space. The course is intended to give a clear conception of the method of Cartesian Analysis, rather than an extensive knowledge of its results.

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## VIII. SCIENCE.

**Natural Philosophy.**—The student is thoroughly grounded in the elements of mechanics and physics. The apparatus of the College Laboratory is available for class use. The historical beginnings of each subject, and subsequent development, are sketched in brief lectures. No pains are spared to familiarize the pupil with the laws of these sciences, by instruction, experiment, review, and repeated examination. The truth of principles is proved, except where the demonstration involves the higher mathematics.

**Astronomy.**—Descriptive Astronomy discusses the earth's relation to the solar system, the masses, motions and orbits of each member of it; the causes and consequences of at least five motions of the earth; general boundaries of the constellations of the Zodiac and Northern heavens; the accepted theories of comets, meteors and nebulae. Charts, star maps, globes and other apparatus are used, and the student is afforded privileges of observations in the College Observatory.

**Physical Geography** lays a broad foundation for subsequent work in all sciences. It surveys the earth's physiography, climate, atmosphere, fauna, flora, ocean tides and currents, and geological agencies. Special attention is given to the physical features of the United States. Drawings, photographs, colored and relief maps, and specimens from the Museum aid to make clear the subject.

**Geology.**—The student here masters the elements of lithographical, structural, dynamic and historical Geology. Specimens of various rocks and minerals are handled in class; their composition, characteristics and place in nature are explained; the structure of the earth in its present form is studied; the history of its evolution, the age and characteristics of its strata, the chief geological features of each continent, and the forces at work are considered.

**Botany** is taught by text-book, plant analysis and weekly lectures. A brief outline is first obtained of plant structure, physiology, growth, and reproduction. The subject is then reviewed by daily drill in analyzing, recording, classifying and preserving specimens. The recorded analysis of fifty plants is required. Lectures explaining special forms of vegetable growth, the flora of this country, the cultivation, uses, and history of plants complete the work.

**Physiology.**—Every effort is made to impart clear ideas of the structure, parts and functions of the human body. Special attention is given to the chemistry of foods, the laws of health, and the effects of stimulants and narcotics. Suggestions are also made as to poisons and their antidotes, the care of the sick, disinfection and sanitation, and accidents and emergencies. Charts, manikin and preparations are used in class.

**Descriptive Chemistry** is taught by text-book and lectures. The object of the course is to give the student a general knowledge of the most common elements, their sources, uses, compounds and behavior towards other elements and compounds, and to drill the student in writing formulæ and solving chemical equations. To accomplish this, each student will be expected to spend at least at least five hours each week in the Laboratory, studying the characteristics and reactions of the elements and their compounds, and performing the more simple experiments outlined in the text and lectures. Notes will be kept by each student, describing the experiment and giving the equation which represents the reaction taking place. The Instructor from time to time examines the note-books, and makes such suggestions as he thinks helpful.

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## IX. ELOCUTION.

This department is open to all members of the Institute. Its aim is the correct and effective utterance of thought; special attention is given to Voice Culture, Articulation, including Pronunciation and Expression. Weekly Rhetoricals, in Bucknell Hall, afford opportunity for platform work. Bible Reading and the study of Shakespeare have places in the course.

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## PHYSICAL CULTURE.

The health of the students is made a prime object of attention, and sanitary requirements are carefully observed. The Institute Gymnasium has been refurnished and classes in Physical Culture are organized for the benefit of all students. The exercises practiced are such as tend to the development of grace and strength. The Jenness-Miller movements have been lately introduced. The institute Campus of six acres furnishes facilities for exercise. Lawn tennis and other out-door games are encouraged.

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## ÆSTHETIC CULTURE.

It is intended that the pupils of the Institute shall have the influence unconsciously received from painting, music and refined surroundings, as well as direct instruction in Literature, Music and Art. Special instruction in Music and Art is given in the schools devoted to those subjects. Exercise in Free-hand Drawing are required of all students, except the Seniors.



The art collection has been recently enriched by a fine oil painting, "Tobit's Offering to the Angels," presented by Mrs. H. S. Hopper.

The Venus de Milo and other casts have also been added.

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## SOCIAL CULTURE.

Pupils are trained to observe the usages of good society. Meetings of various organizations for improvement in Literature, Music and Art, and receptions at stated times in the charge of the pupils, give variety to student life. No effort is spared to give the pupils the advantages of a cultured home.

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## RELIGIOUS TRAINING.

The Institute is distinctively Christian in its influence. The morning Chapel exercises in Bucknell Hall are attended by the Institute students in common with the members of other departments. Attendance upon Sabbath school and church services in town is required. All students have weekly recitations in Inductive Bible Study. The students have organized several special classes for Scripture study.

The Young Women's Christian Association, composed of the officers and students of the Institute, meets on the second Sunday and on the second Thursday of each month. The regular Tuesday evening prayer-meeting, with other devotional meetings, and missionary and temperance work, are in charge of this Association.

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## SPECIAL BRANCHES.

Italian and Spanish may be taken as optional studies, under the instruction of M. Elysée Aviragnet.

All optional studies must be pursued in connection with the regular classes.

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## ELOCUTION AND GENERAL CLASS EXERCISES.

Exercises in Spelling are required of all students except Seniors.

Bible instruction is given once a week throughout the entire course.

Essays are required of all students each month.

Two declamations are required of each student during each term.

Exercises in Elocution are required once a week of all classes. The textbook is Shoemaker's Practical Elocution, and the course of instruction includes:

Voice Culture ; Modulation ; Analytical Reading ; Articulation—Phonetics ; Expression—Gesture, and the study of Shakespeare.

Special individual instruction in Elocution is offered at fifty cents a lesson.



## PUBLIC EXERCISES.

**The Exercises of the Graduating Class**, held in Commencement Hall, form the closing exercises of the Institute. This year they will be held June 18th.

**The Exercises of the Fourth Year Class.**—Of special interest in the calendar of the Institute are the Exercises of the Fourth Year Class, being a combined musical and literary entertainment held in Bucknell Hall. These exercises will take place this year Saturday evening, May 4th.

**The Contest in Elocution** takes place May 11th in Bucknell Hall. A prize is offered for which all members of the Institute are allowed to compete.

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## ALUMNÆ AND OTHER SOCIETIES.

**The Alumnae Association** holds its anniversary during Commencement Week. The date for 1894 is June 17th.

During Commencement Week, as far as the accommodations will permit, Alumnae who take part in the Anniversary will be entertained at the Institute.

**The Lewisburg Alumnae Club** meets at the Institute on the second Tuesday evening of each month during term-time.

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## STUDENTS' LOAN SOCIETY OF BUCKNELL INSTITUTE.

In June, 1887, there was organized in connection with Bucknell Institute, an Association for the purpose of assisting young women of limited means to obtain an education. A fund was established by gifts from the Alumnae Association and other friends of the Institute. The money is loaned to beneficiaries who obligate themselves to return it, *without interest*, as soon after their graduation as they may be able.

The Association is composed of Acting members, who contribute \$5.00 annually. The amount, however, is not limited; and larger or smaller sums will be welcome.

The Society meets in the parlors of the Institute on the first Tuesday morning after the opening of each term, at 9 o'clock.

The annual meeting for the election of officers is held at the Institute on the first Tuesday after the opening of the school in September.

All contributions to the Society should be sent to the Treasurer, Mrs. T. H. Purdy, Sunbury, Pa.

## THE ART DEPARTMENT.

### MISS CANDACE WOOD.

The facilities for the study of Art have been greatly increased by the accommodations allotted to this department, in a special Studio, which provides such adjustments for admission of light and unencumbered wall surface as render it adapted for the execution and display of art productions.

For such students as desire opportunity for work preparatory to professional study, and for those who wish to fit themselves to give systematic instruction in drawing, the following course is provided :—

**First Year.**—Drawing in Pencil, Charcoal and Crayon from solid geometrical forms, and portions of the human figure, with the necessary elements of Perspective, the laws of Proportion and the relations of Light and Shade.

**Second Year.**—Drawing from the Antique in Coal, Crayon, Sepia or oil Monochrome; Modeling in Clay or Wax. Study in Color from Draperies and Still Life.

**Third Year.**—Composition, Color in Landscape, Pen and Ink Drawing and Painting in Color from Nature and from Life.

On successful completion of this entire course a certificate of proficiency will be awarded.

Students who do not desire the certificate course and whose interest is in Decorative Work, will receive the requisite instruction in the latest methods,—China Painting, Tapestry Dyeing and applied Design in other mediums and materials.

Charges for instruction in Art are as follows :—

	<i>Per Annum.</i>
Drawing.....	\$24 00
Crayoning.....	33 00
Painting in Oil, Water Colors, Pastel or on China .....	60 00
	<i>Per Lesson.</i>
Special individual instruction in Painting.....	\$ 1 00

Free-hand Drawing is a part of the required work of the school, without extra charge, and is taught in the class-room to all students except the Seniors.

### ART EXHIBIT.

On the last three days of Commencement Week, a display of art products by the pupils of the School of Art is made in the Studio. At this time, a committee of art students receives and entertains all those who visit the Studio.

## SCHOOL OF MUSIC.

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**ELYSÉE AVIRAGNET, A. M., MUS. DOC., DIRECTOR.**

The School of Music is under the special charge of a French artist, whose musical education was received at the Conservatory of Music in Paris, and who has had a large and successful experience in teaching. He is supported by competent assistants, and the course is designed to afford every needed facility for the study of Vocal and Instrumental Music. An ample supply of pianos from the best makers is provided for practice, including a Concert Grand.

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## INSTRUMENTAL MUSIC.

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### **COURSE FOR THE PIANO-FORTE OF FOUR YEARS FOR GRADUATION.**

The pupil is required to pursue the most thoroughly approved modern system of technical training. After the first rudiments have been mastered, the course of instruction leads to the practice of *etudes*, designed to unite with purely technical drill the requirement of artistic style and expression.

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## PIANO.

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### **FIRST YEAR.**

New England Conservatory Method, 1 and 2 parts; LeCouppey *Ecole du Méchanisme*; Duvernoy *Ecole du Méchanisme*, books 1, 2 and 3; Kohler, op. 157; Czerny, fifty Studies from op. 261, 821, 599 and 139, ed. of Henrich Germer; Meyer, *Progressive and Melodious Studies*; Robert Sutton's "The Elements of the Theory of Music;" Brown, *Musical Biographies of Composers*.

### **SECOND YEAR.**

Plaidy, *Technical Studies*; Czerny, *Polyrythmic Studies* from op. 139, 834, 335 and 299; Czerny, *Studies of Ornamentation* from op. 355 and 833; Czerny, twelve Studies from op. 299 and 740; Czerny, thirty Studies from op. 299 and 834 (Henrich Germer Edition); Heller, *Expression and Rythm*, op. 125; Kul-lak, *Preparatory Octave Studies*; Rockstro, *Practical Harmony*; Rockstro, *A History of Music*.



**THIRD YEAR.**

Clementi "Gradus ad Parnassum;" Tausig, Daily Studies; Kohler, op. 112; Cramer Studies, books 1, 2 and 3; Czerny, thirty-six Octave Studies from op. 821, 335, 740 and 834 (Henrich Germer Edition); Richter, Harmony; Dr. Marx, Universal School of Music.

**FOURTH YEAR.**

R. Joseffy, daily Studies; Czerny, twenty Studies from op. 335; Czerny, nineteen Studies from op. 740; Czerny, Toccata, op. 92 (Henrich Germer Edition); Kullak, Octave Studies; Chopin, Studies; Liszt, Studies; S. Bach, Well Tempered Clavichord (prelude et fugues); Kullak, Art of Touch; Richter, Counterpoint; Reicha, Course of Musical Composition.

During the four years, selected studies from Bertini, Rossellen, Moscheles, Hertz and Thalberg are also given to the pupils.

That the æsthetic development may be proportionately secured, the above exercises are supplemented by the study of works of the best composers.

**COURSE FOR PIPE ORGAN.**

The course is based upon:

F. Schneider's Practical Organ School, Thayer, Dudley Buck Pedal Studies, and upon works of Rink, Batiste, Lefébure—Wely, Guilmant, and others.

**COURSE FOR THE VIOLIN.**

This course is based upon:

Dancla's School of Mechanism; De Beriot's Violinist's First Guide; Fiorillo's Studies; Alard's Studies; Kreutzer's Studies, etc., with selections from the compositions of the best writers for this instrument.

**COURSE FOR THE VIOLONCELLO.**

Instruction for this instrument is based upon:

Méthode Pratique pour le Violoncello, par S. Lee.

**COURSE FOR VIOLA.**

Bruni's Method and Studies.

**COURSE FOR CONTREBASSO (DOUBLE BASS).**

Bottesini's Method.

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**THE ORCHESTRA.**

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**CLASSES FOR ALL ORCHESTRAL INSTRUMENTS.**

Students who are sufficiently advanced in any of the above musical instruments will have opportunity of practice in string quartettes, trios, concertos, and symphonies of Beethoven, Mozart and Haydn. The Orchestra furnishes the music for the public entertainments of the Institute.

## THE BAND.

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A Brass Band, consisting of about twenty pieces, has been organized, and is led by M. Elysée Aviragnet, Director of the School of Music. The Band meets weekly in Bucknell Hall for rehearsal, and furnishes street and cornet music for University and town exercises.

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## VOICE CULTURE.

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### COURSE OF THREE YEARS FOR GRADUATION.

Careful instruction is given in the use of the voice, and the correct manner of producing purity of tone. To secure control over the voice and gain for it flexibility, fullness and durability, thorough drill is afforded in such technical exercises as :

Lamperti's Italian Methods ; Ciro Pinsuti's Daily Exercises ; the Vocalises of Rossini, Marchesi, Brodogni, Ronconi and Concone ; Duprez's L'Art du Chant ; Lamperti's Studies in Bravura Singing. For expression and the development of a pure style, practice is afforded in singing the best English, German, Italian and French Songs, Operatic Arias, and Solos from the Oratorios.

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## COURSE IN HARMONY.

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It is urgently recommended that the study of Harmony be included with other musical work, inasmuch as a sound knowledge of its principles is essential to the success of all vocalists and instrumentalists. The text books used are :

Rockstro's Practical Harmony, Richter's Counterpoint, Reicha's Course of Musical Composition.

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## RECITALS.

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On the Friday evening prior to Commencement Week a public recital of the School of Music is held in Bucknell Hall.

The public examination of those who desire certificates of proficiency, is held in Bucknell Hall the Saturday afternoon before Commencement. At this time, each pupil plays or sings two pieces of high grade, and reads an essay on some subject connected with music.

## TUITION.

Extra tuition is charged for instruction in Music, as follows :

	<i>Per Annum.</i>
Vocal Music.....	\$60 00
Music on Piano, <i>or</i> Organ.....	60 00
Harmony, in Class.....	18 00
Harmony, private lessons.....	60 00
Use of Instrument for practice.....	10 00
	<i>Per Lesson.</i>
Special individual instruction in Music.....	\$ 1 00

No reduction will be made except in case of protracted illness.

Instruction in the Orchestra and in Harmony is free to pupils otherwise studying music.

## BOARD.

Pupils in music reside in the Institute, and are under the care of the Principal of the Institute. Students pursuing any of the Institute courses can also take studies in music. Those who wish to make music a specialty are recommended to take at least one study each term in Language or Literature, for which no additional charge will be made. When two or more studies are taken in the Literary Department, the regular rates will apply.

The regular charges for pupils in music, residing in the Institute, including one literary subject per term, are \$195 per annum. This *does not* include charges for instruction in music, which are determined by the number of lessons taken per week.

## GRADUATION.

Students who complete any of the Courses in Music and pass the examinations, receive a certificate of proficiency. Students will not be ranked as Seniors in music until they have passed an examination before the Committee. Besides the examination before the Committee for admission to the Senior Class, students will be required to pass a preliminary examination at the opening of the Spring term, and a final examination before Commencement Week. Students will not be admitted to the final examination unless they have passed the preliminary examinations.



## GENERAL INFORMATION.

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### ADVANTAGES.

The Bucknell Institute offers to young ladies unusual educational advantages. Its location in a University town assures an atmosphere of study, and the benefit of numerous literary exercises, lectures and addresses. The students in the institute have the use not only of the Library and apparatus of the Institute, but of the College as well, including the Astronomical Observatory, Chemical Laboratory, Museum, and the various apparatus of the University. An isolated school could not provide for itself these advantages at a cost of less than a quarter of a million dollars.

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### ADMINISTRATIVE AND OTHER REGULATIONS.

1. The general control of the Institute is vested in the President of the University.
  2. The government of the Institute, subject to such control, rests with the Principal of the Institute.
  3. Young ladies attending the College or School of Music are subject to the rules and regulations governing the young ladies attending the Institute.
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### RULES.

The rules of the Institute are few and simple and such as contemplate relations with those only whose purpose it is to conform to reasonable laws.

Parents should not seek to direct their daughters in such particulars as might interfere with the regulations of the Institute.

The following are selections from the regulations :

1. No student is allowed to leave the Institute grounds at any time without permission from the Principal.
2. Unless for reasons very satisfactory, students from a distance are not permitted to visit their homes, or to leave the Institute to visit with relatives or friends in town.
3. None but near relatives and friends from a distance are allowed to visit with boarding students, and such visits must be so arranged as not to interfere with the regular hours of study and recitation.

4. Students are not at liberty to invite guests to their private apartments, or to any part of the building, without permission from the Principal.

5. Teachers and students take their meals at the same table, and no special article of food is served to any one except in case of sickness.

6. Parents and guardians are particularly requested to refrain from furnishing their daughters and wards with *eatables of any kind*, except fruit.

7. Patrons visiting young ladies at the Institute may be accommodated with board at one dollar a day, if there are vacant rooms. In no case will students be required to give up their rooms to visitors. It is expected that all visitors will conform to the general regulations of the Institute.

8. Regular and systematic exercise, both in the open air and in the Ladies' Gymnasium, is required of each student.

9. In the Regular Course, the number of daily recitations is fixed. Special students are required to engage in such a number as may, in the judgment of the Principal, be sufficient to occupy their time.

10. The character of each recitation is recorded at the time, and the result, together with a statement of the general industry and deportment of the student, is sent to the parent or guardian at the close of the term.

11. The passing grade in any study is a definite one, and must be attained before promotion can be secured.

12. No room will be reserved for a student unless definitely engaged.

13. The books and current periodicals of the College and Institute Libraries are available for all students.

14. ARTICLES REQUIRED.—Each student should be provided with an umbrella, water-proof, overshoes, table napkins, towels, covers for bureau and washstand, counterpanes, sheets and pillow-cases; size of pillow, twenty by thirty inches; bureau, forty-three by nineteen inches; washstand, thirty-two by sixteen inches.

Every article of clothing should be marked with the owner's name in full.

It is especially desired that the dress of pupils shall be simple and inexpensive. Whenever practicable, the wardrobe should be prepared at home, to avoid frequent visits to town.

An infirmary, for such students as may become sick during their residence in the school, has been established in a portion of the main building, remote from all noise.

A dispensary, containing medicines for use in sudden illness, has recently been established.



## PRIZES.

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The following Prizes have been established :

### THE BUCKNELL PRIZES.

The following Prizes have been founded by the late William Bucknell, of Philadelphia.

1. A First Senior Prize, to be awarded to the member of the graduating class who, being excellent in scholarship during the Senior Year, shall prepare the best essay.

2. A Second Senior Prize, to be awarded to the member of the graduating class who, being excellent in scholarship during the Senior Year, shall prepare the second best essay.

For the year 1894 the First Prize of twenty-four dollars was awarded to Alice Lillibridge ; and the Second Prize of sixteen dollars to Mabel Thomas.

3. A Third Senior Prize, to be awarded to the member of the graduating class who shall attain the highest grade in the studies of the Senior Year. This excludes all grades for studies not in the Senior Year, all Senior studies taken before the Senior Year, and all studies not taken in the University.

For the year 1894, this Prize of twenty-five dollars was awarded to Mary Bell.

4. A First Fourth Year Prize, to be awarded to the member of the Fourth Year Class who, being excellent in scholarship during the year, shall prepare the best Fourth Year essay.

5. A Second Fourth Year Prize, to be awarded to the member of the Fourth Year Class, who, being excellent in scholarship during the year, shall prepare the second best Fourth Year essay.

For the year 1894 these Prizes were awarded as follows : Anna Rogers received the First Prize of twenty dollars ; Jennie Davis the Second Prize of fifteen dollars.

The Fund consists of \$2,000, the income from which is to be devoted to these prizes annually in a manner more particularly defined in the donor's communication to the Trustees.

Themes for the Bucknell Essay prizes for the years 1895, 1896 and 1897 will be drawn from the following works :

1895.—Shakespeare's Merchant of Venice ; Macaulay's Essay on Milton ; Ruskin's Sesame and Lilies ; Whittier's Among the Hills ; Holmes' Autocrat of the Breakfast Table ; Hawthorne's Blithedale Romance.

1896.—Shakespeare's Henry VIII ; Lamb's Essays of Elia ; Carlyle's Heroes and Hero Worship ; Lowell's Vision of Sir Launfal ; Hawthorne's Mosses from an Old Manse.



1897.—Shakespeare's Hamlet; Goldsmith's Deserted Village; Longfellow's Miles Standish; Hawthorne's Marble Faun.

#### THE LIPPINCOTT PRIZE.

An award of fifty dollars has been offered by Mr. Craig Lippincott, to the student who proves, on examination, to have the best command of the English Language, and the most thorough knowledge of British and American Literature. For the year 1894 this Prize was awarded to Alice Lillibridge and Nora Greene.

#### THE ELOCUTION PRIZE.

A Prize in Elocution is offered to the student who shall give the best recitation at the Annual Contest.

For 1894 the Prize was awarded to Margaret Wagner.

#### THE AVIRAGNET PRIZES.

Professor Elysée Aviragnet has established two Prizes, as follows:

##### MUSIC.

A Prize of ten dollars for excellence in Music.

For 1894 this Prize was awarded to Emma Faust.

##### FRENCH.

A Prize of ten dollars for excellence in French.

For 1894 this prize was awarded to Alice Mensch.

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### SCHOLARSHIPS AND AIDS.

Free Scholarships, covering tuition, are awarded to children of Ministers of the Gospel *in actual service*.

The Students' Loan Society, organized June, 1887, will give aid to as many students of the Institute as possible. Applications for aid should be made to the President, Mrs. Katherine B. Larison, Lewisburg, Pa.



# EXPENSES.

**I. Boarding Students.**—The regular charges for Boarding Students are \$230.00 per annum ; the other expenses, spending-money, books and clothing, are at the option of the individual student.

Boarding Students are charged extra for the washing of dresses, and for more than twelve pieces per week.

The rooms in the Bucknell Cottage are rented in suites, for which there is an extra charge, depending on the location.

	<i>Per Annum.</i>
Suite on the first floor .....	\$30 00
Suite on the second floor .....	34 00
Suite on the third floor.....	28 00

Each suite contains a study and two sleeping apartments, and has accommodations for, and will be occupied by, four persons, and the charge will be divided accordingly.

If a student arranges to occupy one of the large rooms, in the South Hall of the Main Building, by herself, extra room-rent will be charged.

Students will be charged for damage done to furniture or to the room they occupy.

**II. Day Students.**—The charges for Day Students amount to fifty-five dollars per annum, and are apportioned as follows :

	<i>Per Annum.</i>
Tuition .....	\$36 00
Incidentals, etc.....	19 00
	<hr/>
	\$55 00

**III. Extra Studies.**—The charges for the same are enumerated under Elocution, Drawing and painting, and Music.

Bills are payable *strictly in advance* ; by the 15th of September, January, and April. Checks and drafts should be drawn in favor of the Registrar of the University.

No bill will be made out for a shorter period than one term ; and no deduction will be made except in the charge for board in case of a prolonged absence on account of sickness.

The expenses for Music, Printing, and other charges ordinarily incurred at Examinations and on Anniversary occasions, are paid by the class or classes for which such expenses are incurred.

When music is furnished by the Institute Orchestra for public exercises, no charge is made.

The fee for Graduation and Diploma is five dollars.

Young ladies taking College courses have their residence in the Institute. For rates apply to the Registrar.

For information respecting the Institute, address the Principal, Mrs. Katherine B. Larison, A. M., or the President of the University, John H. Harris, Ph. D., LL. D.

## RAILROAD DIRECTORY.

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**P. & R.**—The Shamokin, Sunbury and Lewisburg Division of the Philadelphia and Reading Railroad now passes through Lewisburg. Passengers from Philadelphia take a through car at the Broad and Callowhill Station, either in the morning or evening. Roads tributary to the main line of the Reading connect with these trains at West Falls, Reading, Tamaqua, Mahanoy Junction, and Shamokin. Passengers on the line of the Catawissa Railroad can connect with trains for Lewisburg at West Milton.

**P. & E.**—The Philadelphia and Erie Railroad runs within one and a half miles of Lewisburg. Persons coming to Lewisburg stop at Montandon. From that place the Lewisburg and Tyrone Railroad runs through Lewisburg, and trains on this road make connections with the Philadelphia and Erie Railroad.

Most of the following trains are through from the points named below without change of cars:

Three trains daily from Philadelphia, Baltimore, Pittsburg, Buffalo, Elmira, and Williamsport; two from New York, *via* Harrisburg or Scranton; and one from Erie.

**Penna. R. R.**—Passengers from Pittsburg and other points on the Pennsylvania Railroad can reach Lewisburg *via* Tyrone and Lock Haven, or *via* Tyrone and Bellefonte, or *via* Lewistown and Sunbury, or *via* Harrisburg and Montandon, according as they are located on the line.

**D. L. & W.**—The Lackawanna and Bloomsburg Railroad connects with the Philadelphia and Erie Railroad at Northumberland.

The above trains connect at all intermediate points. All of the above roads have fast express trains through Lewisburg.



# UNIVERSITY CALENDAR.

1894-1895.

SECOND TERM ends.....Friday, March 22, 1895

## SPRING RECESS.

THIRD TERM begins.....Tuesday, April 2, 1895.  
SERMON BEFORE THE Y. M. C. ASSOCIATIONS,.....Sunday, April 7, 1895.  
DECLAMATION OF THE THIRD FORM, Academy. ....Saturday, April 27, 1895.  
EXERCISE OF THE FOURTH YEAR CLASS, Institute.....Saturday, May 4, 1895.  
CONTEST IN ELOCUTION, Institute.....Saturday, May 11, 1895.  
EXHIBITION OF THE JUNIOR CLASS, College.....Friday, May 24, 1895.  
EXAMINATIONS....Thursday to Saturday, June 13 to 15, 1895.  
EXHIBITION, School of Music.....Friday, June 14, 1895.  
BACCALAUREATE SERMON.....Sunday, June 16, 1895.  
SERMON BEFORE THE EDUCATION SOCIETY.....Sunday, June 16, 1895.  
EXAMINATIONS FOR ADMISSION TO COLLEGE.....Monday, June 17, 1895.  
MEETING OF THE ALUMNÆ OF THE INSTITUTE.....Monday, June 17, 1895.  
ORATION BEFORE THE LITERARY SOCIETIES.....Monday, June 17, 1895.  
ANNUAL MEETING OF THE TRUSTEES.....Tuesday, June 18, 1895.  
ANNUAL MEETING OF THE ALUMNI.....Tuesday, June 18, 1895.  
EXHIBITION OF THE FOURTH FORM, Academy.....Tuesday, June 18, 1895.  
GRADUATING EXERCISES OF THE INSTITUTE.....Tuesday, June 18, 1895.  
ORATION BEFORE THE ALUMNI.....Tuesday, June 18, 1895.  
Annual Commencement, the 45th.....Wednesday, June 19, 1895.

## SUMMER VACATION.

EXAMINATIONS FOR ADMISSION TO COLLEGE, Wednesday, September 11, 1895.  
FIRST TERM begins.....Thursday, September 12, 1895.  
RECEPTION BY CHRISTIAN ASSOCIATIONS.....Saturday, September 14, 1895.  
INTRODUCTORY ADDRESS.....Monday, September 11, 1895.  
THANKSGIVING (recess of three days).....Thursday, November 28, 1895.  
FIRST TERM ends.....Wednesday, December 18, 1895.

## HOLIDAY RECESS.

SECOND TERM begins.....Tuesday, January 7, 1896.  
DAY OF PRAYER FOR COLLEGES.....Thursday, January 30, 1896.  
SECOND TERM ends.....Friday, March 27, 1896.

## SPRING RECESS.

THIRD TERM begins.....Thursday, April 2, 1896.  
SERMON BEFORE THE Y. M. C. ASSOCIATIONS.....Sunday, April 12, 1896.  
THIRD TERM ends.....Wednesday, June 24, 1896.

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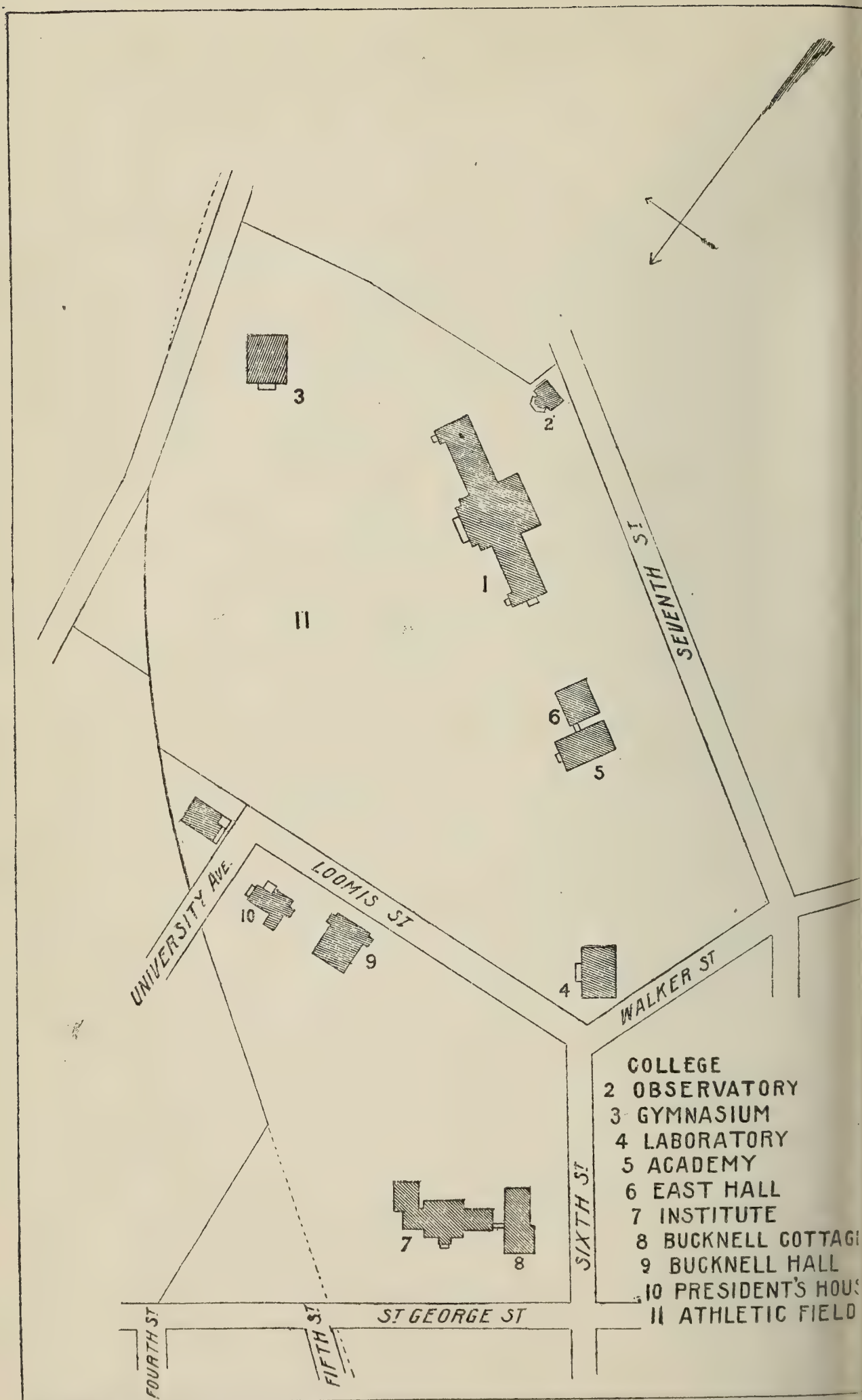
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MAP OF GROUNDS AND BUILDINGS—BUCKNELL UNIVERSITY.

THE  
Forty - Sixth Annual Catalogue  
OF THE  
Officers and Students  
OF  
Bucknell University,  
LEWISBURG, PA.  
FOR THE YEAR 1895-'96.

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PUBLISHED BY THE UNIVERSITY.



## LOCATION.

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Bucknell University is located at Lewisburg, near the geographical centre of the State, on the West Branch of the Susquehanna River, in a valley famous for healthfulness and beauty. In addition to the natural advantages of the site, the founders of the institution appreciated the quiet of an inland town for economical support and retirement in study, particularly as it was found that other corporations had so located "their respective colleges as to leave in the central and northern part of Pennsylvania, a region extending more than two hundred miles from east to west, and more than one hundred miles from north to south, wholly unoccupied by any literary institution above the grade of an ordinary academy." Since the founding of the University, the multiplication of railroads has rendered access easy to every part of the State.

## PLAN AND PURPOSE OF THE UNIVERSITY.

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### CORPORATE RIGHTS.

The University was incorporated with full University privileges, by the Legislature of Pennsylvania in an Act approved by the Executive on the fifth day of February, A. D. 1846. The Management of the University is committed to a Board of Trustees, consisting of twenty-five members, or fewer, at the option of the Board. The Trustees are prohibited, for any cause, or under any pretext whatever, from encumbering by mortgage or otherwise the real estate or any other property of the Institution. It is required by the charter that no religious sentiments are to be accounted a disability to hinder the election of an individual to any office among the teachers of the Institution, or to debar persons from attendance as pupils, or in any manner to abridge their privileges or immunities as students in any department of the University.

### ENDOWMENT.

The Institution has productive funds amounting to over \$400,000. The endowment funds, raised at various times, were increased, in 1881, to an even \$200,000. Since that time William Bucknell has contributed to the general fund \$115,000, and for scholarships and prizes about \$25,000.

One hundred thousand dollars additional endowment was raised in 1892.

### FORM OF BEQUEST.

To persons desiring to aid in increasing the efficiency of the schools in the work of preparing young men and young women for usefulness, the following form of bequest is recommended:

*I give and bequeath to the Bucknell University, at Lewisburg, Pa., the sum of.....dollars for the general purpose of said school, according to the Act of Assembly incorporating the same.*

### ORGANIZATION.

The University aims to impart sound instruction in all non-professional studies. It comprises four departments:

I. **The College** offers four courses of study, leading respectively to degrees in Arts, Philosophy, and Science.

II. **The Institute** for young women has three courses of study, the Literary, the Classical, and the Scientific, leading to diplomas, but not to degrees.

III. **The Academy** is designed to fit young men for College, either for the Classical, Philosophical, or Scientific course.

IV. **The School of Music** has full courses in instrumental and vocal music, and grants diplomas to those who complete either of the specified courses.

These schools are one corporation, have one President, who has general charge, with a principal in more immediate charge of each of the subordinate departments. All expenses are met from funds in the hands of a common treasurer.

## THE BOARD OF TRUSTEES.

---

CHAIRMAN, HARRY S. HOPPER, ESQ.,

28 South Third Street, Philadelphia.

SECRETARY, REV. A. JUDSON ROWLAND, D. D.,

1420 Chestnut Street, Philadelphia.

TREASURER, REV. DAVID P. LEAS, A. M.,

400 South Fortieth Street, Philadelphia.

---

REV. C. C. BITTING, D. D.,  
HON. JAMES BUCHANAN,  
JOHN P. CROZER, ESQ.,  
HIRAM E. DEATS, ESQ.,  
CALVIN GREENE, ESQ.,  
PRES. JOHN H. HARRIS, LL. D.,  
HARRY S. HOPPER, ESQ.,  
\*JAMES IRVING, ESQ.,  
EBEN C. JAYNE, ESQ.,  
REV. DAVID P. LEAS, A. M.  
CRAIGE LIPPINCOTT, ESQ.,

D. BRIGHT MILLER, A. M.  
HON. CHARLES MILLER,  
GEORGE M. PHILIPS, PH. D.  
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REV. LEROY STEPHENS, D. D.  
JAMES S. SWARTZ, ESQ.  
ERNEST L. TUSTIN, ESQ.  
JOSEPH K. WEAVER, M. D.  
REV. HENRY G. WESTON, D. D., LL. D.  
HON. S. P. WOLVERTON, A. M.

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\* Deceased.

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## MEETINGS OF THE BOARD.

The annual meeting is held on Tuesday of Commencement week, at Lewisburg.

The semi-annual meeting is held on the second Thursday of January, at 1420 Chestnut Street, Philadelphia.



## COMMITTEES OF THE BOARD.

---

### COMMITTEE ON INSTRUCTION AND DISCIPLINE:

REV. A. JUDSON ROWLAND, D. D., *Chairman.*

REV. HENRY G. WESTON, D. D.,	HON. SIMON P. WOLVERTON, A. M.,
REV. LEROY STEPHENS, D. D.,	ERNEST L. TUSTIN, A. M.,
REV. C. C. BITTING, D. D.,	GEORGE M. PHILIPS, PH. D.,

AND THE PRESIDENT.

---

### COMMITTEE ON FINANCE:

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*JAMES IRVING, ESQ.,	JOSEPH K. WEAVER, M. D.,
HON. JAMES BUCHANAN,	EBEN C. JAYNE, ESQ.,
REV. DAVID P. LEAS, A. M.,	JOHN P. CROZER, ESQ.,
HARRY S. HOPPER, ESQ.,	HIRAM E. DEATS, ESQ.,

AND THE PRESIDENT.

---

### COMMITTEE ON BUILDINGS AND LIBRARY:

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CRAIGE LIPPINCOTT, ESQ.,	HON. CHARLES MILLER,
HON. SIMON P. WOLVERTON, A. M.,	PRES. JOHN H. HARRIS, LL. D.,

CALVIN GREENE, ESQ.

---

### COMMITTEE ON PUBLICATION:

REV. GEORGE M. SPRATT, D. D., *Chairman.*

REV. DAVID P. LEAS, A. M.,	REV. HENRY G. WESTON, D. D.,
REV. C. C. BITTING, D. D.,	REV. LEROY STEPHENS, D. D.,

AND THE PRESIDENT.

---

\* Deceased.

## THE UNIVERSITY PROPERTY.

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### I. THE COLLEGE.

The main College building is situated on a hill one hundred feet above the Susquehanna River, and overlooks scenery of unsurpassed beauty. It was designed by Thomas U. Walter, LL.D., architect of the dome and wings of the Capitol, at Washington, D. C., and is in the Grecian style, combining dignity and simplicity. The Building has a façade of three hundred and twenty feet. The central portion is eighty feet square, and is strengthened in front by four massive columns. On the first floor are five recitation rooms. On the second floor are the Halls of Theta Alpha and Euepia Literary Societies, the Library-room, Reading-room, and Museum of Natural History.

In the third story is Commencement Hall, with a seating capacity of fifteen hundred.

The wings on the eastern and western sides, respectively, of the Main Building, are each one hundred and twenty feet in length, and four stories in height, and are used for students' rooms. Each sleeping room above the second floor is supplied with a fire-escape.

Several thousand dollars have been expended recently in improving the college building.

### II. BUCKNELL HALL.

Bucknell Hall is the chapel of the University. In it all the students of the various departments meet daily for worship. The exercises consist in the reading of Scripture, in singing, and in prayer. This service tends to give unity to the life of the University.

### III. BUCKNELL OBSERVATORY.

The Observatory was erected in 1887, and is designed for the use of students in Practical Astronomy.

The entire equipment is new and represents the latest improvements in astronomical instruments. It consists of a Clark Equatorial Telescope of 10 inches aperture and 12½ feet focal length, furnished with a fine position Micrometer and all the usual accessories; a Spectroscope, with prism and grating by Brashear, the grating having 14,500 lines to the inch; a 3-inch Prismatic Transit with a 13 wire movable Micrometer by T. Ertel & Sons; a Fauth Chronograph with Bond Spring Governor; a Waldo Precision Clock for sidereal time, with mercurial compensation, break circuiting apparatus; Daniell's battery and telegraph sounders; a Seth Thomas Clock for solar time; a Sextant; a 3-inch Altitude Azimuth Refractor; a set of Meteorological instruments; Celestial globes and maps, and standard works on Theoretical and Practical Astronomy.

## IV. THE BUCKNELL LABORATORY.

The Laboratory was erected in 1890, and is a building forty-three feet in width and eighty-six feet in length, with two stories above the basement. In the first story, which has a clear height of fifteen feet, are a lecture-room, with a seating capacity for one hundred and twenty-five students, and a large working-room, in which are tables for individual work in Chemical Analysis; the second floor contains a lecture-room for the class in Physics, and one room each for Quantitative and Qualitative Analysis; the basement has a dark room for Photometry, a room for Applied Chemistry, another for Electricity, and a fire-proof room.

## V. THE TUSTIN GYMNASIUM.

The basement of the Gymnasium is built of stone, and contains rooms for students' lockers, wardrobes, and dressing-rooms, and shower-baths. The second story is built of brick, rising twenty-two feet from the main floor to the square, and is open to the roof. At the height of twelve feet a running-track gallery, six feet wide, surrounds the room.

## VI. THE UNIVERSITY ATHLETIC FIELD.

The field is conveniently located at the foot of "College Hill," and has been graded and fitted up for out-door sports. In the northwest corner, at the main entrance to the college grounds, a shaded section has been set aside for tennis. The athletic field is sufficiently large for foot-ball, base-ball, and lacrosse. Tustin Gymnasium is located at the end of the field, so as to be near the centre of exercise, and easily accessible to the trainers and students.

## VII. THE ACADEMY.

**1. The Main Building** of the Academy is situated on "College Hill," and is fifty feet in width by eighty feet in length, and three stories in height. On the first floor is a dining-room, thirty feet by thirty-six feet; two recitation-rooms, a reception-room, and the Principal's office; on the second floor are suites of rooms for the Principal and his family and for the Matron, and a society hall; the third floor is occupied by students' rooms. These are twenty feet by twelve feet, and fourteen feet high. Over three thousand dollars have been recently expended in the improvement of this building.

**2. The East Hall** of the Academy is the Bucknell Cottage for young men, and is contiguous to the main building and connected with it by a covered passage-way. It is of brick, three stories high, sixty feet in length and forty feet in width, and is finished in natural wood. The building contains a recitation-room, teachers' apartments, and rooms for students. The rooms have high ceilings, large double windows with inside shutters, and two commodious closets each.

Both buildings are supplied with hot and cold water and are warmed by steam.



## VIII. THE INSTITUTE.

1. **The Main Building** contains, on the first floor, an office for the Principal and the Registrar, a reception-room, the office of the Director of Music, five music-rooms, two recitation-rooms, and a dining-hall; on the second floor a school-room and a parlor, elegantly furnished; on the third floor a library-room, teachers' apartments, and students' rooms.

2. **The South Hall**, erected in 1869, is devoted to students' rooms, except the third story, which is used as a gymnasium. This gymnasium has been lately renovated and equipped.

3. **The Bucknell Cottage** stands to the southwest of the Main Building, and is connected with it by an enclosed passage-way. It is built of brick, in the Queen Anne style of architecture, and has dimensions of one hundred feet by thirty-three feet. The interior is finished in natural wood, and is equipped, in matters of light, heat, and ventilation, with modern improvements.

The portion allotted to students' rooms affords accommodations for forty occupants. These rooms are in suites on the general plan of a centre parlor, with bed-rooms and closets on either side. The most spacious room of the building and its chief attraction is the **Studio**, with such adjustments for the admission of light and supply of unencumbered wall surfaces as adapt it for the execution and display of art products.

All the Institute buildings are supplied with hot and cold water. Steam pipes and radiators warm every room.

4. **The Campus** of the Ladies' Institute comprises six acres, separated from the college grounds by Loomis Street, and contains a grove of native trees, with shaded walks. Two courts furnish opportunity for tennis.

## IX. THE PRESIDENT'S HOUSE.

The Corporation also owns a house for the use of the President of the University.

## THE COLLEGE.

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### THE FACULTY AND OTHER OFFICERS.

---

JOHN HOWARD HARRIS, PH. D., LL. D., PRESIDENT,  
AND PROFESSOR OF PSYCHOLOGY AND ETHICS.

FREEMAN LOOMIS, A. M., PH. D.,  
PROFESSOR OF MODERN LANGUAGES AND LITERATURE.

GEORGE G. GROFF, M. D., LL. D.,  
PROFESSOR OF ORGANIC SCIENCES.

WILLIAM CYRUS BARTOL, A. M., PH. D.,  
PROFESSOR OF MATHEMATICS AND ASTRONOMY.

FRANK ERNEST ROCKWOOD, A. M.,  
PROFESSOR OF THE LATIN LANGUAGE AND LITERATURE.

WILLIAM GUNDY OWENS, A. M.,  
PROFESSOR OF PHYSICS AND CHEMISTRY.

ENOCH PERRINE, A. M., LITT. D.,  
JOHN P. CROZER PROFESSOR OF RHETORIC AND ENGLISH LITERATURE, AND  
SECRETARY.

THOMAS FRANKLIN HAMBLIN, A. M.,  
NEW JERSEY PROFESSOR OF THE GREEK LANGUAGE AND LITERATURE.

LINCOLN HULLEY, A. M., PH. D.,  
PROFESSOR OF HISTORY AND HEBREW.

WILLIAM EMMETT MARTIN, A. M.,

PROFESSOR OF LOGIC AND ANTHROPOLOGY.

LLEWELLYN PHILLIPS, A. M.,

INSTRUCTOR IN ELOCUTION.

ELYSEE AVIRAGNET, A. M.,

INSTRUCTOR IN THE ROMANCE LANGUAGES.

ALBERT BURNS STEWART, A. M.,

INSTRUCTOR IN MATHEMATICS.

LEO GUIDO CHARLES RIEMER, A. B.,

INSTRUCTOR IN LATIN AND GERMAN.

NELSON FITHIAN DAVIS, SC. B.,

ASSISTANT IN ORGANIC SCIENCE.

HEMAN LINCOLN WAYLAND, D. D.,

LECTURER ON SOCIOLOGY.

GEORGE DANA BOARDMAN, D. D., LL. D.,

LECTURER ON SOCIAL ETHICS.

WILLIAM EMMETT MARTIN, A. M.,

LIBRARIAN.

WILLIAM CHRISTIAN GRETZINGER, PH. B.,

REGISTRAR OF THE UNIVERSITY.



## DIRECTORY OF THE ALUMNI.

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*President*, JOHN C. NISSLEY, ESQ., Harrisburg.

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**THE ALUMNI CLUB OF LEWISBURG.**

*President*, ANDREW A. LEISER, ESQ., Lewisburg.

*Secretary*, CHARLES J. WOLFE, A. M., Lewisburg.

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\* Deceased.

## STUDENTS.

## CANDIDATES FOR THE MASTER'S DEGREE.

NAME.	RESIDENCE.
EZRA ALLEN, A. B.,	<i>Coudersport</i>
NELLIE WILSON CONARD, PH. B.,	<i>Philadelphia</i>
HARVEY LEARN FASSETT, PH. B.,	<i>Hightstown, N. J.</i>
WARREN LESLIE KAUFMAN, PH. B.,	<i>Harrisburg</i>
ALONZO CORODYN LATHROP, A. B.,	<i>Everett</i>
KATE IRENE McLAUGHLIN, A. B.,	<i>Lewisburg</i>
JACOB HENRY MINICK, A. B.,	<i>Orrstown</i>
WILLIAM THEODORE PAULLIN, JR., A. B.,	<i>Philadelphia</i>
HERBERT MOXLEY PEASE, A. B.,	<i>Eatonville</i>
HERBERT SPENCER SCHUYLER, SC. B.,	<i>Kutztown</i>
FRANK MORTON SIMPSON, SC. B.,	<i>Sharon</i>
BROMLEY SMITH, A. B.,	<i>Factoryville</i>

GRADUATE STUDENTS, 12.



## THE SENIOR CLASS.

NAME.	RESIDENCE.	ROOM.
LEANDER WILBUR BALDWIN,	<i>Hilltown.</i>	No. 21, West Wing
CHARLES JAMES BERGER,	<i>Philadelphia.</i>	No. 22, West Wing
HERVEY HARRIS BOWER,	<i>Lewisburg.</i>	F. E. Bower, Esq.
FREDERICK WILLIAM BROWN,	<i>Franklin.</i>	No. 8½ East Wing
ALVIN ALONZO COBER,	<i>Newberry.</i>	No. 22, East Wing
HARRY THOMAS COLESTOCK,	<i>Crooked Creek.</i>	No. 14, West Wing
MARY COTTON,	<i>Lewisburg.</i>	Mr. John S. Cotton
JOHN WARREN DAVIS,	<i>Great Bridge, Va.</i>	No. 29, West Wing
ALEXANDER DOUGLASS,	<i>Philadelphia.</i>	No. 15, West Wing
FRED. DELISLE FINN,	<i>Clifford.</i>	No. 14, East Wing
CHARLES FIRTH,	<i>Chester.</i>	No. 29, West Wing
FOSTER CALVIN FISHER,	<i>Salem.</i>	No. 8, East Wing
FORREST LLOYD FULTON,	<i>New Washington.</i>	Mrs. Gibson
ELWOOD TYSON HADDOCK,	<i>Media.</i>	Mrs. Gibson
WILLIAM ELMER HALL,	<i>Lewisburg.</i>	Home
HERBERT FREDERIC HARRIS,	<i>Lewisburg.</i>	President Harris
FRED. BURTON HUNT,	<i>Square Top.</i>	No. 11, East Wing

THE COLLEGE.

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NAME.	RESIDENCE.	ROOM.
ALBERT WILLIAMS JOHNSON,	<i>New Berlin.</i>	No. 11, East Wing
THOMAS LEWIS JOSEPHS,	<i>Lindsey.</i>	No. 10, West Wing
DANIEL ELWOOD LEWIS,	<i>Conshohocken.</i>	Home
JAMES DEMOREST MACNAB,	<i>Brooklyn, N. Y.</i>	No. 9, West Wing
ROBERT BURNS McCAY,	<i>Sunbury.</i>	No. 8, East Wing
FRANK BARRON MILLER,	<i>Lewisburg.</i>	D. Bright Miller, Esq.
ERVIN RUSSELL POWELL,	<i>Ellwood City.</i>	No. 14, East Wing
BARCLAY REYNOLDS, JR.,	<i>Rising Sun, Md.</i>	No. 23, East Wing
ALBERT COLLINS ROHLAND,	<i>West Newton.</i>	No. 28, East Wing
MARY ROHRER,	<i>Lewisburg.</i>	Mrs. C. L. Rohrer
ALBERT WOODWARD STEPHENS,	<i>Mount Pleasant.</i>	Rev. Leroy Stephens, D. D.
JOSIAH BOWER SUITER,	<i>Lock Haven.</i>	No. 15, West Wing
THOMAS REBER TAGGART,	<i>Hughesville.</i>	No. 33, East Wing
LEWIS CLARK WALKINSHAW,	<i>Greensburg.</i>	No. 31, West Wing
BERTON BELFORD WARE,	<i>Millville, N. J.</i>	No. 9, West Wing
AMOS THOMAS WILLIAMS,	<i>Ridgway.</i>	No. 31, East Wing
MARY MOORE WOLFE,	<i>Lewisburg.</i>	Mrs. Martha E. Wolfe
SAMUEL RAWCLIFFE WOOD,	<i>Chester.</i>	No. 28, West Wing
	SENIORS, 35.	

## THE JUNIOR CLASS.

NAME.	RESIDENCE.	ROOM.
GEORGE FENNER BAKER,	<i>Dauphin.</i>	No. 21, East Hall
ABRAM STERLING BARNER,	<i>Towanda.</i>	No. 22, West Wing
WILLARD MAINE BUNNELL,	<i>Montrose.</i>	No. 3, East Wing
LE ROY TYSON BUTLER,	<i>Montandon.</i>	Mrs. C. T. Butler
MERTON ROSCOE COLLINS,	<i>Roaring Branch.</i>	No. 26, West Wing
JOHN ALEXANDER CUTLER,	<i>Philadelphia.</i>	No. 8, West Wing
WILLIAM FREDERIC EICHHOLTZ,	<i>Sunbury.</i>	No. 16, East Wing
JEROME CLARK FETZER,	<i>Milton.</i>	No. 2, West Wing
VINCENT BARRETT FISK,	<i>Erie.</i>	No. 6, Main Hall
EDWARD PERCY GILCHRIST,	<i>Wade, Fla.</i>	No. 16½, East Wing
ANNA KATE GODDARD,	<i>Hamilton, N. Y.</i>	Institute
JAMES ALEXIS GUIE,	<i>Catawissa.</i>	No. 28, East Wing
DAVID SOLOMON GRIM,	<i>Bower's Station.</i>	No. 18, West Wing
JOHN MOORE GUNDY,	<i>Lewisburg.</i>	Mr. J. A. Gundy
HOWARD L. GUSS,	<i>Mifflinburg.</i>	No. 24½, East Wing
MAUD ELIZABETH HANNA,	<i>Bradford.</i>	Institute
ROSA LOUISE HARTLEY,	<i>Guelph, Ont.</i>	Mrs. Mary Clingan
FRANK HOLLINSHEAD,	<i>Philadelphia.</i>	No. 13, East Wing



NAME.	RESIDENCE.	ROOM.
ROBERT OTTENS KOONS,	<i>Conyngham.</i>	No. 18, West Wing
EDWARD CHARLES KUNKLE,	<i>Newberry.</i>	No. 14, West Wing
JOHN VANDLING LESHER,	<i>Northumberland.</i>	No. 27, East Wing
HERBERT BALDWIN MOYER,	<i>Norristown.</i>	Chapter House
ERNEST ROLAND MYERS,	<i>Huntingdon.</i>	No. 23, East Wing
FERDINAND FIELDS NELSON,	<i>Richmond, Va.</i>	No. 32, West Wing
WILLIAM HAMMOND PARKER,	<i>Jenkintown.</i>	Chapter House
ROMEYN RIVENBURG,	<i>Clifford.</i>	No. 3, East Wing
WILLIAM HAMMOND RODGERS,	<i>Allentown.</i>	No. 8, West Wing
LOUIS BROWNING SINNETTE,	<i>Buffalo, N. Y.</i>	No. 18, East Wing
JOHN YEOMAN SINTON,	<i>Wilmington, Del.</i>	No. 28, West Wing
HARRY THOMAS SPRAGUE,	<i>Lewisburg.</i>	Mr. John Sprague
RUTH HORSFIELD SPRAGUE,	<i>Lewisburg.</i>	Mr. John Sprague
HERBERT CHARLES STANTON,	<i>Chinchilla.</i>	No. 27, East Wing
CARL SUMMERBELL,	<i>Lewisburg.</i>	No. 16, West Wing
NELLIE TAYLOR,	<i>Factoryville.</i>	Mr. John Sprague
JOHN MCCALMONT WILSON,	<i>Franklin.</i>	Mrs. W. R. Funk
PALMER LEWIS WILLIAMS,	<i>Scranton.</i>	No. 16, East Wing

## THE SOPHOMORE CLASS.

NAME.	RESIDENCE.	ROOM.
JOHN TRUMAN ANDERSON,	<i>Lewisburg.</i>	Mrs. Margaret Anderson
ENOS COOK BAKER,	<i>Ercildown.</i>	No. 27, West Wing
LOUIS HECKER BURGE,	<i>Vineland, N. J.</i>	No. 16, West Wing
MARY EVANS CHAMBERS,	<i>West Chester.</i>	Mrs. Fannie R. Dutton
CHARLES WOLVERTON CLEMENT,	<i>Sunbury.</i>	No. 20, East Wing
VIDA SMITH DAVENPORT,	<i>Pittston.</i>	Institute
GEORGE MORGAN DAVIS,	<i>Atlantic Highlands, N. J.</i>	No. 30, East Wing
JAMES ROBERT LINCOLN DIGGS,	<i>Forrestville, Md.</i>	No. 32, West Wing
FRANK WILLIAM DILLON,	<i>Union City.</i>	No. 6, West Wing
ELWOOD HERBERT DUTTON,	<i>Lewisburg.</i>	Mrs. Fannie R. Dutton
DAVID HAYES ELLIOT,	<i>Hartleton.</i>	No. 20, East Wing
LEVI TRUCKENMILLER FETZER,	<i>Milton.</i>	No. 2, West Wing
HARRY CHESTER FITHIAN,	<i>Greenwich, N. J.</i>	No. 19, East Wing
EDWARD FLINT,	<i>Philadelphia.</i>	No. 32, East Wing
ANDREW MADISON FORRESTER,	<i>Moreland.</i>	No. 32, East Wing
SIMON WARD GILPIN,	<i>Newfoundland.</i>	No. 26, West Wing
ANNA MAY GILCHRIST,	<i>Wade, Fla.</i>	Prof. Van Gundy
WALTER LIDDELL HILL,	<i>Rochester, N. Y.</i>	No. 15, East Hall
GEORGE ALBERT JENNINGS,	<i>Great Bridge, Va.</i>	No. 29, West Wing
FRANK CLARK KATHERMAN,	<i>Lewisburg.</i>	Mr. E. Katherman
EUGENE EYER KERSTETTER,	<i>Lewisburg.</i>	Mr. Charles Kerstetter
CHARLES DISON KOCH,	<i>Clarkestown.</i>	No. 17, West Wing

NAME.	RESIDENCE.	ROOM.
RALPH FREDERICK KOONS,	<i>Huntingdon Mills.</i>	No. 30, West Wing
JOHN GRANT LAUDERBAUGH,	<i>Library.</i>	No. 18, East Wing
DANIEL KLYNE LAUDENSLAGER.	<i>Quakertown.</i>	No. 29, East Wing
HARRIET IRENE LEWIS,	<i>Lewisburg.</i>	Mr. Thomas S. Lewis
ANDREW ALBRIGHT LEISER, JR.,	<i>Lewisburg.</i>	A. A. Leiser, Esq.
CHARLES ARTHUR LINDEMANN,	<i>Philadelphia.</i>	No. 15½, West Wing
JAMES BROWN MARTIN,	<i>Lewisburg.</i>	Prof. Martin
ROY BROWN MULKIE,	<i>Union City.</i>	No. 31, West Wing
HIRAM LONG PURDY,	<i>Sunbury.</i>	No. 16½, East Wing
ROBERT VINCENT REX,	<i>Mauch Chunk,</i>	Chapter House
GEORGE TILDEN RITTER,	<i>Williamsport.</i>	No. 29, East Wing
ANNA MAY RODGERS,	<i>Allentown.</i>	Mrs. Fannie R. Dutton
JOHN ELMER SAUL,	<i>Lewisburg.</i>	Home
FLORA ANN SIEGEL,	<i>Watsonstown.</i>	Institute
GRACE SLIFER,	<i>Lewisburg.</i>	Mrs. C. V. Slifer
ROBERT GREEN SLIFER,	<i>Lewisburg.</i>	Mrs. C. V. Slifer
ARTHUR ANSON SMITH,	<i>Liberty.</i>	No. 12, West Wing
JAMES PALM STOBER,	<i>Kleinfeltersville.</i>	No. 7, West Wing
BENJAMIN FRANKLIN THOMAS,	<i>Clifford.</i>	No. 1, West Wing
FRANK WILLIAM TILLEY,	<i>Bridgeton, N. J.</i>	No. 21, West Wing
MORRIS CRAMER VAN GUNDY,	<i>Lewisburg.</i>	Prof. Van Gundy
FRED. WARD WAGNER,	<i>Bradford.</i>	No. 28, East Wing
JOHN WALLS,	<i>Lewisburg.</i>	Mr. W. C. Walls
MARY ELIZABETH WILSON,	<i>Lewisburg.</i>	Mr. Thomas S. Wilson



## THE FRESHMAN CLASS.

NAME.	RESIDENCE.	ROOM.
LAURA LOUISA ALLEN,	<i>Coudersport.</i>	Institute
FLOYD GEORGE BALLENTINE,	<i>Clarion.</i>	No. 24, East Wing
GEORGE LIVINGSTON BAYARD,	<i>Plymouth Meeting.</i>	No. 5, East Hall
FRANK JONES BEVAN,	<i>Mt. Carmel.</i>	No. 12, East Wing
JOHN H. BOGERT,	<i>Paterson, N. J.</i>	No. 27, East Wing
JAMES CALDWELL BRYSON,	<i>Watsonstown.</i>	Mrs. Clingan
IRVING HERBERT BUCKMINSTER,	<i>Vineland, N. J.</i>	No. 5, East Wing
JOHN EMMETT CALVIN,	<i>Transfer.</i>	No. 21, East Wing
MARION AUBREY CARRINGER,	<i>Marienville.</i>	Mr. E. E. Hall
JAMES LLEWELLYN CATTELL,	<i>Denver, Col.</i>	No. 5, East Wing
GEORGE HENRY CATTERALL,	<i>Wyoming.</i>	No. 13, East Wing
SAMUEL JOSEPH CLEELAND,	<i>Philadelphia.</i>	No. 33, East Wing
EMMANUEL WILSON COBER,	<i>Pine Hill.</i>	No. 19, West Wing
EVARTS CLANCY CONOVER,	<i>Hamilton Square.</i>	No. 36, East Wing
HUBERT FRANCIS COOK,	<i>Forestville, N. Y.</i>	No. 25, East Wing
WILLIAM ALBION COOK,	<i>Forestville, N. Y.</i>	No. 25, East Wing
THOMAS EDWARDS COOPER,	<i>Union City.</i>	No. 5, East Hall
REES ALONZO DAVIS,	<i>Mt. Carmel.</i>	No. 5, West Wing
CHARLES GEORGE DAVIS,	<i>Sunbury.</i>	No. 22, East Wing
OLIVER JOHN DECKER,	<i>Duboisstown.</i>	No. 17, West Wing
AMOS KAPP DEIBLER,	<i>Deibler's.</i>	No. 10, West Wing
ARTHUR MARTIN DEVALL,	<i>Wharton.</i>	No. 29, West Wing

NAME.	RESIDENCE.	ROOM.
GRACE AMELIA DeWOLFE,		Institute
JOHN PASHER DIFFENDERFER,	<i>Newark, N. J.</i>	Mr. W. W. Brown
WILLIAM HENRY ENGLE,	<i>Kelly Cross Roads.</i>	No. 16 East Wing
CLARISSA LOUISE FOWLER,	<i>Sunbury.</i>	Institute
JOHN DAVID FREDERICK,	<i>Olean, N. Y.</i>	No. 11, West Wing
GOTTLIEB L. FREUDENBERGER,	<i>Reading.</i>	Chapter House
ALBERT ROWLAND GARNER,	<i>Tamaqua.</i>	No. 5, East Wing
BENJAMIN W. GRIFFITH,	<i>Philadelphia.</i>	No. 24, East Wing
LEROY HALL,	<i>St. Clair.</i>	No. 17, East Wing
ADONIRAM JUDSON HANNA,	<i>Union City.</i>	Rev. T. A. T. Hanna
ALBERT LEDLIE HANNA,	<i>Pottsville.</i>	Rev. T. A. T. Hanna
CHARLES WAY HARVEY,	<i>Pottsville.</i>	Mrs. Margaret Anderson
JOSEPH CHALMER HAZEN,	<i>Unionville.</i>	No. 17, East Wing
ALBERT HUTCHINSON,	<i>Achor, Ohio.</i>	No. 5, West Wing
GEORGE EDWARD JENKINSON,	<i>Holmes.</i>	No. 30, East Wing
ROBERT MANNING IVINS,	<i>Atlantic Highlands, N. J.</i>	Wolfe Block
HOWARD LEWIS KAUCHER,	<i>Trenton, N. J.</i>	No. 23, East Hall
NED LLEWELLYN KAUFMAN,	<i>Reynoldsville.</i>	No. 7, East Hall
CHARLES SCULL KEEN,	<i>Kutztown.</i>	No. 26, East Wing
DANIEL HORATIO KRISE,	<i>Cramer Hill, N. J.</i>	No. 4, West Wing
OSCAR ROBERT LEVAN,	<i>Liberty.</i>	No. 24, West Wing
ALICE JUNE LILLIBRIDGE,	<i>Hamburg.</i>	Institute
CHRISTIAN LIVINGSTON McQUISTION,	<i>Olyphant.</i>	No. 22, West Wing
CHARLES PAUL MEEKER,	<i>Butler.</i>	No. 20, West Wing
HOWARD CURTIS MESERVE,	<i>Rahn's Station.</i>	No. 25, West Wing
WILLIAM ROBERT MORRIS,	<i>New Haven, Conn.</i>	No. 12, East Wing
	<i>Scranton.</i>	

NAME.	RESIDENCE.	ROOM.
ARTHUR CARLETON MULFORD,	<i>Bridgeton, N. J.</i>	No. 5, East Wing
MAURICE BACON MULFORD,	<i>Bridgeton, N. J.</i>	No. 5, East Wing
EDWIN LIGHTNER NESBIT,	<i>Lewisburg.</i>	Mr. J. C. Nesbit
FRANK JOSEPH RAWLINSON,	<i>Alexandria, Va.</i>	No. 21, East Wing
GEORGE LLEWELLYN REES,	<i>Philadelphia.</i>	Mr. W. S. Skinner
REUBEN LAMONT RENTZ,	<i>Montgomery.</i>	No. 2, East Wing
DAVID HOWARD ROBBINS,	<i>Mooresburg.</i>	No. 2, East Wing
MARTIN LUTHER ROSS,	<i>Mifflinburg.</i>	No. 6, East Wing
MARY ELOISE SCHUYLER,	<i>Everett.</i>	Mr. John Sprague
MARY HOOPES SHARPLESS,	<i>West Chester.</i>	Institute
EDGAR KIMMEL SHUMAKER,	<i>New Bethlehem.</i>	No. 6, East Hall
MYRA AMY SPRAGUE,	<i>Factoryville.</i>	Institute
FRANCIS MARION STAPLETON,	<i>Lewisburg.</i>	Rev. A. Stapleton
GERTRUDE STEPHENS,	<i>Lewisburg.</i>	Rev. Leroy Stephens, D. D.
MARY STEPHENS,	<i>Lewisburg.</i>	Rev. Leroy Stephens, D. D.
HOWARD IRA STEWART,	<i>Watsontown.</i>	Rev. E. H. Stewart
MARGARET ALICE THOMAS,	<i>Frostburg, Md.</i>	Mrs. Rowe
GEORGE STEPHEN TILLY,	<i>Bridgeton, N. J.</i>	No. 21, West Wing
WILLIAM THOMPSON TODD,	<i>Allegheny City.</i>	No. 10, West Wing
WILLIAM MYLES WARREN,	<i>Germantown.</i>	No. 6, East Wing
FRESHMEN, 68.		



PURSUING SPECIAL STUDIES.

NAME.	RESIDENCE.	ROOM.
JOSEPH HUTCHINSON COOKE,	<i>Philadelphia.</i>	No. 7, East Wing
AMZI WILSON GEARY,	<i>Carbondale.</i>	No. 16, East Wing
FRANK EARLE HERING,	<i>Williamsport.</i>	Academy
FREDERICK W. ROBBINS,	<i>Muncy.</i>	At Home
RUTLEDGE THORNTON WILTBANK, JR.,	<i>Philadelphia.</i>	No. 7, East Wing

SUMMARY.

Graduate Students, . . . . .	12
The Senior Class, . . . . .	35
The Junior Class, . . . . .	36
The Sophomore Class, . . . . .	46
The Freshman Class, . . . . .	68
Pursuing Select Studies, . . . . .	5
Total in the College, . . . . .	202
In other departments, . . . . .	226
Total in all departments, . . . . .	428

## ADMISSION.

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### TO FRESHMEN STANDING.

**I. General Requirements.**—Examinations for admission to the Freshman Class will be held on Monday of Commencement week. Candidates will assemble in Bucknell Hall at 8.30 A. M.

Similar examinations are also held on the day preceding the opening of each term. In special cases, candidates may be examined and admitted at other times in the year.

Candidates are expected to be well prepared in the English branches named below. They will be as strictly examined in these studies as in the Ancient Languages and Mathematics.

There must be furnished to the President by the candidate, satisfactory testimonials of good moral character, and, if from another college, a certificate of honorable dismissal must be presented.

The required age for admission to the Freshman Class is fifteen years.

**II. Particular Requirements.**—They are as follows for the respective courses:

#### I. THE CLASSICAL COURSE.

To enter the Classical Course, the student must sustain an examination in:—  
ENGLISH.

**NOTE.**—No candidate will be accepted in English whose work is notably defective in point of spelling, punctuation, idiom, or division into paragraphs.

1. *Reading.*—A certain number of books will be set for reading. The candidate will be required to present evidence of a general knowledge of the subject-matter, and to answer simple questions on the lives of the authors. The form of examination will usually be the writing of a paragraph or two on each of several topics, to be chosen by the candidate from a considerable number—perhaps ten or fifteen—set before him in the examination paper. The treatment of these topics is designed to test the candidate's power of clear and accurate expression, and will call for only a general knowledge of the substance of the books. In place of a part or the whole of this test, the candidate may present an exercise book, properly certified by his instructor, containing compositions or other written work done in connection with the reading of the books.

I. The books set for this part of the examination will be:

1896: Shakespeare's *A Midsummer Night's Dream*; Defoe's *History of the Plague in London*; Irving's *Tales of a Traveller*; Scott's *Woodstock*; Macaulay's *Essay on Milton*; Longfellow's *Evangeline*; George Eliot's *Silas Marner*.

1897: Shakespeare's *As You Like It*; Defoe's *History of the Plague in London*; Irving's *Tales of a Traveller*; Hawthorne's *Twice Told Tales*; Longfellow's *Evangeline*; George Eliot's *Silas Marner*.

1898: Milton's *Paradise Lost*, Books I and II; Pope's *Iliad*, Books I and XXII; The Sir Roger de Coverley Papers in the *Spectator*; Goldsmith's *The Vicar of Wakefield*; Coleridge's *Ancient Mariner*; Southey's *Life of Nelson*; Carlyle's *Essay on Burns*; Lowell's *Vision of Sir Launfal*; Hawthorne's *The House of the Seven Gables*.

1899: Dryden's *Palamon and Arcite*; Pope's *Iliad*, Books I, VI, XXII, and XXIV; The Sir Roger de Coverley Papers in the *Spectator*; Goldsmith's *The Vicar of Wakefield*; Coleridge's *Ancient Mariner*; De Quincey's *The Flight of a Tartar Tribe*; Cooper's *Last of the Mohicans*; Lowell's *Vision of Sir Launfal*; Hawthorne's *The House of the Seven Gables*.

**II. Study and Practice.**—This part of the examination presupposes the thorough study of each of the works named below. The examination will be upon subject-matter, form, and structure.

The books set for this part of the examination will be:

1896: Shakespeare's *The Merchant of Venice*; Milton's *L'Allegro*, *Il Penseroso*, *Comus*, and *Lycidas*; Webster's *First Bunker Hill Oration*.

1897: Shakespeare's *The Merchant of Venice*; Burke's *Speech on Conciliation with America*; Scott's *Marmion*; Macaulay's *Life of Samuel Johnson*.

1898: Shakespeare's *Macbeth*; Burke's *Speech on Conciliation with America*; DeQuincey's *The Flight of a Tartar Tribe*; Tennyson's *The Princess*.

1899: Shakespeare's *Macbeth*; Milton's *Paradise Lost*, Books I and II; Burke's *Speech on Conciliation with America*; Carlyle's *Essay on Burns*.

#### MATHEMATICS.

1. Arithmetic, including the Metric System.

2. Algebra, including Quadratic Equations. The requirements in this study are intended to include the treatment of Radicals, and will be most nearly met by the use of Well's University Algebra.

3. Plane Geometry.

#### LATIN.

1. Latin Grammar—Allen and Greenough's, or Harkness'.

2. Daniell's Latin Prose Composition.

3. Four Books of Cæsar's Commentaries.

4. Six Orations of Cicero.

5. Six Books of Vergil's *Æneid*.

#### GREEK.

1. Greek Grammar—Hadley and Allen's, or Goodwin's.

2. The equivalent of Jones' Greek Prose Composition—20 Lessons.

3. Greek Reader.

4. Books of Xenophon's *Anabasis*.

5. Three Books of Homer's *Iliad*.

#### HISTORY.

1. History of Rome.

2. History of Greece.

3. Elements of United States History.

#### SCIENCE.

1. Geography—Descriptive, Political, and Physical.

2. The student is recommended to read some elementary work on Physics and Physiology, also Morse's "First Book in Zoölogy," Gray's "How Plants



Grow," and Dana's "Geological Story Briefly Told." This reading should be done before entering upon the studies of the Sophomore year. The necessary books can be obtained in the University Library.

In any of the subjects of examination, satisfactory equivalents will be accepted instead of the text-books named.

## II. THE PHILOSOPHICAL COURSE.

I. THE LATIN DIVISION.—To enter the Latin Division of the Philosophical Course, the candidate must sustain an examination in the above-named studies, except Greek, and in Elementary Physics and Physiology.

II. THE GREEK DIVISION.—To enter the Greek Division of the Philosophical Course, the candidate must sustain an examination in the above-named studies, except Cicero and Vergil, and in Elementary Physics and Physiology.

## III. THE SCIENTIFIC COURSE.

To enter the Scientific Course, the candidate must sustain examination in English Grammar, Elements of Rhetoric, English Composition, Arithmetic, including the Metric System; Algebra, through Quadratic Equations, and Plane Geometry; Latin Grammar, Latin Composition (Daniell's Part I, or an equivalent), Cæsar's Commentaries, Four Books; Elementary Physics, Physiology and Hygiene, and Botany; Geography, Mathematical, Political, and Physical; History of the United States, General History, and Civil Government.

## CONDITIONAL ADMISSION.

A candidate failing to pass in one or more of the subjects required for admission, may, at the discretion of the Faculty, be admitted to his class conditionally, to make up his deficiencies by extra study. When they are made up, he will be received into full standing in his class.

## SPECIAL STUDENTS.

Young men who do not desire to take a full regular course, can enter and select special shorter courses, with the sanction of the Faculty; but, in all cases, satisfactory examinations must be passed upon the subjects required for admission to the Freshman Class of the course from which they intend to select.

Students who have completed a course of study in preparatory schools of high grade may be admitted upon the certificate of the Principal of the school from which they come.

Graduates of Bucknell Institute in any of the courses will be admitted to the Sophomore year of the corresponding courses in the College.

Graduates from Bucknell Academy in the Classical Course, or in the Scientific Course, will be admitted to the corresponding course in College upon the certificate of the Principal of the Academy.

Graduates of Pennsylvania State Normal Schools are admitted to the Scientific Course without examination.

## TO ADVANCED STANDING.

**I. General Requirements.**—A proportionate increase of age is requisite for admission to advanced classes over that required for admission to Freshman standing. Other general requirements are the same as for admission to the Freshman Class.

**II. Particular Requirements.**—Candidates for admission to advanced classes are examined both as for admission to Freshman standing and also in the studies that have been pursued by the class which they desire to enter.

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## LOCAL EXAMINATION FOR ADMISSION.

Arrangements have been made for conducting entrance examinations at Philadelphia, Pittsburg, Harrisburg, and Scranton. Those intending to present themselves for examination at either of these places should inform the President of the University of their intention, and the necessary information as to details will be furnished.

These examinations will be held Friday, June 19th, 1896.

## COURSES OF STUDY.

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The following Courses of Study may be pursued in the College:

I. **The Classical Course** extends through four years, and aims to furnish a liberal education in classical and modern literature, the sciences and the arts. It comprises, substantially, the studies of the established college curriculum, with the addition of such branches as modern life seems to demand. The studies in the Freshman year and in the first two terms of the Sophomore year are all required; in the third term of the Sophomore year and in the Junior and Senior years, most of the studies are elective. Students who have satisfactorily pursued this course are admitted to the degree of Bachelor of Arts.

II. **The Philosophical Course**, with Latin or Greek, in each of its two divisions, also extends through four years, and aims to furnish a thorough training in advanced studies to those who desire to pursue but one of the Ancient Languages. This course contains four terms of such language study, be it of Latin or Greek, most of the other studies of the Classical Course, with some addition of Scientific subjects. Students pursuing this course recite, as far as possible, with the Classical students. Those who have completed the studies of the course are admitted to the degree of Bachelor of Philosophy.

III. **The Scientific Course** extends through four years, and is substantially the same as the Philosophical Course, with the substitution of additional Mathematical, Scientific and Modern Language studies for Latin and Greek. Those who have completed the course are admitted to the degree of Bachelor of Science.

In the selection of optional studies in the above courses, the choice is made with the approbation of the Faculty.

IV. **The Eclectic Course** is not limited to any definite time, and does not lead to any degree. It is designed to furnish advanced instruction in literature, science, and the arts, to students who do not intend to pursue a regular course of study, but desire to select certain branches. The College will furnish special students with such studies as they may elect only at times announced in the Curricula. Every student is required to select at least three studies from those taught during any given term, and these are to be pursued at the same time. Students will not be allowed to pursue studies for which they are not fully qualified by their previous training. A certificate will be given by the President, at any time, stating what studies have been completed and the grade attained in them. This certificate will be accepted as equivalent to an examination, if the holder, at any time, desires to be transferred to one of the regular courses.

V. **Advanced Courses** in Literature, Philosophy and Science have been established, leading respectively to the degrees of Master of Arts, Master of Philosophy, and Master of Science. These courses are open to graduates of Bucknell University only. Particulars may be learned by addressing the President.



## CURRICULA.

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### THE CLASSICAL COURSE.

*Leading to the Degree of Bachelor of Arts.*

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#### FRESHMAN YEAR.

I. TERM—	{ Geometry, Algebra, Cicero de Senectute and Livy, Lysias' Orations, Greek Prose Composition,	Lectures on Hygiene, Lectures on the Essay, English Composition, Elocution.
II. TERM—	{ Trigonometry, Algebra, Livy, Herodotus and Thucydides, Greek Testament,	Lectures on Derivatives, English Composition, Elocution.
III. TERM—	Analytical Geometry, Paterculus and Pliny, Odyssey, Greek Testament,	Lectures on Chemistry, English Composition, Elocution.

#### SOPHOMORE YEAR.

I. TERM—	General Chemistry, Horace, Rhetoric,	Linear Perspective, English Composition, Elocution.
II. TERM—	Animal Physiology, Demosthenes, English Literature,	Sanitary Science, English Composition, Elocution.
III. TERM—	Botany, German,	English Versification, English Composition, Elocution.

#### ELECTIVE STUDIES:

<i>Juvenal,</i> <i>English Oratory,</i> <i>Elocution,</i>	<i>Differential Calculus,</i> <i>Higher Analytical Geometry,</i> <i>Civil Engineering,</i> <i>Analytical Chemistry.</i>
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## JUNIOR YEAR.

- |                    |                       |
|--------------------|-----------------------|
| I. TERM—Mechanics, | History of Education, |
| French,            | Orations,             |
| Elocution.         |                       |

## ELECTIVE STUDIES:

<i>Xenophon's Memorabilia,</i>	<i>Parliamentary Law,</i>
<i>Quintilian,</i>	<i>Integral Calculus,</i>
<i>German, Course 2,</i>	<i>Surveying,</i>
<i>History, Course 6,</i>	<i>Organic Analysis,</i>
<i>History, Course 7,</i>	<i>Biology.</i>

- |                   |                            |
|-------------------|----------------------------|
| II. TERM—Physics, | Electricity and Magnetism, |
| Orations,         | Elocution.                 |

## ELECTIVE STUDIES:

<i>Plato's Apology and Crito,</i>	<i>Logic,</i>
<i>Latin Poets,</i>	<i>Advanced Composition,</i>
<i>German, Schiller,</i>	<i>Advanced Algebra,</i>
<i>French, Course 2,</i>	<i>Quantitative Analysis,</i>
<i>Hebrew,</i>	<i>Animal Histology,</i>
<i>English Bible,</i>	<i>Embryology,</i>
<i>History, Course 4,</i>	<i>Human Anatomy.</i>

- |                      |            |
|----------------------|------------|
| III. TERM—Astronomy, | Geology,   |
| Orations,            | Elocution. |

## ELECTIVE STUDIES:

<i>Cicero de Natura Deorum,</i>	<i>American Civics,</i>
<i>German, Goethe,</i>	<i>History, Course 5,</i>
<i>French, Course 3,</i>	<i>Physics,</i>
<i>Hebrew,</i>	<i>Applied Chemistry,</i>
<i>English Bible,</i>	<i>Plant Histology,</i>

And subjects offered in the third term of the Sophomore year.

## SENIOR YEAR.

- |                     |             |
|---------------------|-------------|
| I. TERM—Psychology, | Literature, |
| Orations.           |             |

## \* ELECTIVE STUDIES:

<i>Sophocles,</i>	<i>Anglo-Saxon,</i>
<i>Tacitus, Annals,</i>	<i>History, Course 1,</i>
<i>German, Lessing,</i>	<i>Practical Astronomy,</i>
<i>French, Course 4,</i>	<i>Geology.</i>

- |                  |                        |
|------------------|------------------------|
| II. TERM—Ethics, | History of Philosophy, |
| Orations.        |                        |

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\* Seniors may take any of the electives of the Junior year for corresponding terms.

### \* ELECTIVE STUDIES:

*Demosthenes de Corona,  
German, Course 6,  
French, Course 5,  
Comparative Anatomy,*

*History, Course 2,  
Economics,  
Roman Law,  
Human Osteology.*

### III. TERM—Theism.

## Greek Literature,

## Orations.

### \* ELECTIVE STUDIES:

*Greek Testament,  
Seneca,  
German, Course 7,*

*French, Course 6,  
Shakespeare,  
Constitutional Law,*

### History, Course 3.

## II. THE PHILOSOPHICAL COURSE.

*Leading to the Degree of Bachelor of Philosophy.*

### A. Latin Division.

## THE FRESHMAN YEAR.

I. TERM— { Geometry,  
                  { Algebra,  
                  Cicero de Senectute and Livy,  
                  German.

Lectures on Hygiene,  
Lectures on the Essay,  
English Composition,  
Elocution.

II. TERM— { Trigonometry,  
                  { Algebra,  
                  Livy,  
                  German,

Lectures on Derivatives,  
English Composition,  
Elocution.

III. TERM—Analytical Geometry,  
Paterculus and Pliny,  
German,

Lectures on Chemistry,  
English Composition,  
Elocution.

### SOPHOMORE YEAR.

I. TERM—Chemistry,  
Rhetoric,  
Horace,

Linear Perspective,  
English Composition,  
Elocution.

II. TERM—Animal Physiology,  
English Literature,  
Advanced Algebra,

**Sanitary Science,  
English Composition,  
Elocution.**

III. TERM—Botany,  
English Composition,

English Versification,  
Elocution.

\* Seniors may take any of the electives of the Junior year for corresponding terms.



## ELECTIVES :

<i>Juvenal,</i>	<i>Differential Calculus,</i>
<i>English Oratory,</i>	<i>Higher Analytical Geometry,</i>
<i>Elocution,</i>	<i>Civil Engineering,</i>
<i>Analytical Chemistry.</i>	

## JUNIOR YEAR.

I. TERM—Mechanics,	History of Education,
French,	Orations,
Elocution.	

## ELECTIVE STUDIES :

<i>Quintilian,</i>	<i>Parliamentary Law,</i>
<i>German, Course 2,</i>	<i>Integral Calculus,</i>
<i>History, Course 6,</i>	<i>Surveying,</i>
<i>History, Course 7,</i>	<i>Organic Analysis,</i>
<i>Biology.</i>	

II. TERM—Physics,	Electricity and Magnetism,
Orations,	Elocution.

## ELECTIVE STUDIES :

<i>Latin Poets,</i>	<i>Logic,</i>
<i>German, Schiller,</i>	<i>Advanced Composition,</i>
<i>French, Course 2,</i>	<i>Advanced Algebra,</i>
<i>Hebrew,</i>	<i>Quantitative Analysis,</i>
<i>English Bible,</i>	<i>Animal Histology,</i>
<i>History, Course 4,</i>	<i>Embryology,</i>
<i>Human Anatomy.</i>	

III. TERM—Astronomy,	Géology,
Orations,	Elocution.

## ELECTIVE STUDIES :

<i>Cicero de Natura Deorum,</i>	<i>American Civics,</i>
<i>German, Goethe,</i>	<i>History, Course 5,</i>
<i>French Course 3,</i>	<i>Physics,</i>
<i>Hebrew,</i>	<i>Applied Chemistry,</i>
<i>English Bible,</i>	<i>Plant Histology,</i>
And subjects offered in the Third Term, Sophomore Year.	

## SENIOR YEAR.

I. TERM—Psychology,	Literature,
Orations.	

## \*ELECTIVE STUDIES:

*Tacitus : Annals,*  
*German, Lessing,*  
*French, Course 4,*

*Geology.*

*Anglo-Saxon,*  
*History, Course 1,*  
*Practical Astronomy,*

II. TERM—Ethics,

Orations.

History of Philosophy,

## \*ELECTIVE STUDIES:

*German, Course 6,*  
*French, Course 5,*  
*Economics,*

*Comparative Anatomy.*

*History, Course 2,*  
*Roman Law,*  
*Human Osteology,*

III. TERM—Theism,

Orations.

Greek Literature,

## \*ELECTIVE STUDIES:

*Seneca,*  
*German, Course 7,*  
*French, Course 6,*

*Shakespeare,*  
*History, Course 3.*  
*Constitutional Law.*

## B. Greek Division.

## FRESHMAN YEAR.

I. TERM— { *Geometry,*  
               { *Algebra,*  
               *Lysias' Orations,*  
               *German,*

{ *Lectures on Hygiene,*  
 { *Lectures on the Essay,*  
   *English Composition,*  
   *Elocution.*

II. TERM— { *Trigonometry,*  
               { *Algebra,*  
               { *Heredotus and Thucydides,*  
               { *Greek Testament,*  
               *German,*

*Lectures on Derivatives,*  
*English Composition,*  
*Elocution.*

III. TERM—*Analytical Geometry,*  
               { *Odyssey,*  
               { *Greek Testament,*  
               *German,*

*Lectures on Chemistry,*  
*English Composition,*  
*Elocution.*

\*Seniors may take any of the electives of the Junior year for corresponding terms.

## SOPHOMORE YEAR.

- |  |   |
|--|---|
| I. TERM—Chemistry,<br>Rhetoric,<br>Xenophon's Memorabilia,         | Linear Perspective,<br>English Composition,<br>Elocution. |
| II. TERM—Animal Physiology,<br>English Literature,<br>Demosthenes, | Sanitary Science,<br>English Composition,<br>Elocution.   |
| III. TERM—Botany,<br>English Composition,                          | English Versification,<br>Elocution.                      |

## ELECTIVES:

<i>English Oratory,</i>	<i>Higher Analytical Geometry,</i>
<i>Elocution,</i>	<i>Differential Calculus,</i>
<i>Analytical Chemistry,</i>	<i>Civil Engineering.</i>

## JUNIOR YEAR.

- |                               |                                    |
|-------------------------------|------------------------------------|
| I. TERM—Mechanics,<br>French, | History of Education,<br>Orations, |
|                               | Elocution.                         |

## ELECTIVE STUDIES:

- |                                |  |
|--------------------------------|--|
| <i>German, Course 2,</i>       | <i>Surveying,</i>                        |
| <i>History, Course 6,</i>      | <i>Integral Calculus,</i>                |
| <i>History, Course 7,</i>      | <i>Organic Analysis,</i>                 |
| <i>Parliamentary Law,</i>      | <i>Biology.</i>                          |
| II. TERM—Physics,<br>Orations, | Electricity and Magnetism,<br>Elocution. |

## ELECTIVE STUDIES:

- |                                   |                               |
|-----------------------------------|-------------------------------|
| <i>Plato's Apology and Crito,</i> | <i>Logic,</i>                 |
| <i>German, Schiller,</i>          | <i>Advanced Composition,</i>  |
| <i>French, Course 2,</i>          | <i>Advanced Algebra,</i>      |
| <i>Hebrew,</i>                    | <i>Quantitative Analysis,</i> |
| <i>English Bible,</i>             | <i>Animal Histology,</i>      |
| <i>History, Course 4,</i>         | <i>Embryology,</i>            |
|                                   | <i>Human Anatomy.</i>         |
| III. TERM—Astronomy,<br>Orations, | Geology,<br>Elocution.        |

## ELECTIVE STUDIES:

- |                          |                           |
|--------------------------|---------------------------|
| <i>German, Goethe,</i>   | <i>American Civics,</i>   |
| <i>French, Course 3,</i> | <i>History, Course 5,</i> |
| <i>Hebrew,</i>           | <i>Physics,</i>           |
| <i>English Bible,</i>    | <i>Applied Chemistry,</i> |
|                          | <i>Plant Histology,</i>   |
- And subjects offered in the third term, Sophomore year.



## SENIOR YEAR.

I. TERM—Psychology,

## Orations.

Literature,

### \* ELECTIVE STUDIES:

*Sophocles,  
German, Lessing,  
French, Course 4,*

*Anglo-Saxon,  
History, Course 1,  
Practical Astronomy,*

## Geology.

## II. TERM—Ethics,

## Orations.

History of Philosophy,

### \*ELECTIVE STUDIES.

*Demosthenes de Corona,  
German, Course 6,  
French, Course 5,  
Comparative Anatomy,*

*History, Course 2,  
Economics,  
Roman Law,  
Human Osteology.*

### III. TERM—Theism,

## Orations.

Greek Literature,

### \* ELECTIVE STUDIES:

*Greek Testament,  
German, Course 7,  
Constitutional Law,*

*French, Course 6,  
Shakespeare,  
History, Course 3.*

### III. THE SCIENTIFIC COURSE.

*Leading to the Degree of Bachelor of Science.*

## FRESHMAN YEAR.

I. TERM—{ Geometry,  
Algebra,  
German,  
*French, and American*  
*Cornelius Nepos.*

{ Lectures on Hygiene,  
{ Lectures on the Essay,  
English Composition,  
or Elocution.

II. TERM— { Algebra,  
Trigonometry,  
German,  
*French, and Chemistry, or*  
*Sallust,*

Lectures on Derivatives,  
English Composition,  
Elocution.

\*Seniors may take any of the electives of the Junior year for corresponding terms.

- |  |  |
|--|--|
| III. TERM—Analytical Geometry,<br>German,<br><i>French and Descriptive</i><br><i>Anthropology or Ovid.</i> | Lectures on Chemistry,<br>English Composition,<br>Elocution. |
|--|--|

### SOPHOMORE YEAR.

- |   |   |
|---|---|
| I. TERM—Rhetoric,<br>Chemistry,<br><i>Surveying, or</i><br><i>Horace,</i> | Linear Perspective,<br>English Composition,<br>Elocution. |
| II. TERM—English Literature,<br>Animal Physiology,<br>Advanced Algebra,   | Sanitary Science,<br>English Composition,<br>Elocution.   |
| III. TERM—Botany,<br>English Composition,                                 | English Versification,<br>Elocution.                      |

### ELECTIVES :

- |  |  |
|--|--|
| <i>English Oratory,</i><br><i>Elocution,</i><br><i>Analytical Chemistry,</i> | <i>Higher Analytical Geometry,</i><br><i>Differential Calculus,</i><br><i>Civil Engineering.</i> |
|--|--|

### JUNIOR YEAR.

- |   |                         |
|---|-------------------------|
| I. TERM—Mechanics,<br>History of Education, | Orations,<br>Elocution. |
|---|-------------------------|

### ELECTIVE STUDIES :

- |   |   |
|---|---|
| <i>German, Course 2,</i><br><i>French, Course 1,</i><br><i>History, Course 6,</i><br><i>History, Course 7,</i><br><i>Parliamentary Law.</i> | <i>Integral Calculus,</i><br><i>Surveying,</i><br><i>Organic Analysis,</i><br><i>Biology,</i> |
|---|---|

- |                                |  |
|--------------------------------|--|
| II. TERM—Physics,<br>Orations, | Electricity and Magnetism,<br>Elocution. |
|--------------------------------|--|

### ELECTIVE STUDIES :

- |   |  |
|---|--|
| <i>German, Schiller,</i><br><i>French, Course 2,</i><br><i>Hebrew,</i><br><i>English Bible,</i><br><i>History, Course 4,</i><br><i>Logic,</i> | <i>Advanced Composition,</i><br><i>Advanced Algebra,</i><br><i>Quantitative Analysis,</i><br><i>Animal Histology,</i><br><i>Embryology,</i><br><i>Human Anatomy.</i> |
| III. TERM—Astronomy,<br>Orations,   | Geology,<br>Elocution.   |

ELECTIVE STUDIES:

<i>German, Goethe,</i>	<i>American Civics,</i>
<i>French, Course 3,</i>	<i>History, Course 5,</i>
<i>Hebrew,</i>	<i>Physics,</i>
<i>English Bible,</i>	<i>Applied Chemistry,</i>
<i>Plant Histology,</i>	

And subjects offered in the third term, Sophomore year.

SENIOR YEAR.

I. TERM—Psychology,	Literature,
Orations.	

\* ELECTIVE STUDIES:

<i>German, Lessing,</i>	<i>History Course 1,</i>
<i>French Course 4,</i>	<i>Practical Astronomy,</i>
<i>Anglo-Saxon,</i>	<i>Geology.</i>

II. TERM—Ethics,	History of Philosophy,
Orations.	

\* ELECTIVE STUDIES:

<i>German, Course 6,</i>	<i>Roman Law,</i>
<i>French, Course 5,</i>	<i>History, Course 2.</i>
<i>Economics,</i>	<i>Human Osteology,</i>
<i>Comparative Anatomy.</i>	

III. TERM—Theism,	Greek Literature,
Orations.	

\* ELECTIVE STUDIES:

<i>German, Course 7,</i>	<i>Shakespeare,</i>
<i>French, Course 6,</i>	<i>Constitutional Law,</i>
<i>History, Course 3.</i>	

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\* Seniors may take any of the electives of the Junior year for corresponding terms.



## LECTURES.

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The following Courses of Lectures have been established. They are given immediately after the chapel exercises on each Monday morning.

### SENIOR CLASS.

- I. TERM—Professor Perrine on American Literature.  
Professor Hulley on Biblical Literature.
- II. TERM—The President on Philosophy.
- III. TERM—Professor Hamblin on Greek Literature.

### JUNIOR CLASS.

- I. TERM—The President on the History of Education.
- II. TERM—Professor Owens on Electricity and Magnetism.
- III. TERM—Professor Groff on Geology.

### SOPHOMORE CLASS.

- I. TERM—Professor Bartol on Linear Perspective.
- II. TERM—Professor Groff on Sanitary Science.
- III. TERM—Professor Perrine on English Versification.

### FRESHMAN CLASS.

- I. TERM—Professor Groff on Hygiene (half term).  
Professor Perrine on the Essay and Oration (half term).
- II. TERM—Professor Bartol on Derivatives.
- III. TERM—Professor Owens on Chemistry.

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### SPECIAL LECTURES.

- 1. A Course of Lectures is given yearly on Sociology, by Heman Lincoln Wayland, D. D., Editor of the *Examiner*, New York.
- 2. A Course of Lectures is given yearly on Social Ethics, by George Dana Boardman, D. D., LL. D.
- 3. A Course of Lectures will be given annually on the Elements of Law, by Honorable Harold Murray McClure, A. M.

## DEPARTMENTS OF INSTRUCTION.

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The method of instruction in the College is partly by text-books and partly by lectures, according to the nature of the subject discussed. Each Professor has his individual mode of imparting knowledge, and this, in the result, is advantageous to the learner. In general, the aim is to discuss each subject as far as possible as the subject-matter requires, yet all branches are presented practically, comparatively, and historically, with the view of leading the student to the apprehension of the subject as a whole and in its organic relations, and not to fill the memory with the phraseology of a text-book. The range and character of the instruction can be gathered from the following account of the different departments.

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### I. ELOCUTION AND ORATORY.

#### INSTRUCTOR PHILLIPS.

The aim is to train the student to speak effectively in the pulpit or upon the platform or at the bar. All instruction is based on the principle that impression precedes and determines expression. Each student receives individual attention, during the first half of the course, in Elocution, during the latter half, in Oratory.

The Freshman Class has weekly recitations in Elocution during the first term. In the second term a prize contest, open to the young men, is held, and each member of the class receives private drill in preparation for it. In the third term each student is required to present two declamations.

In the first term the young men of the Sophomore Class receive private drill in preparation for the prize contest in declamation. In the second and third terms each student is required to present one declamation each term.

In the second term there will be a prize contest in declamation, open to the young ladies of the Freshman and Sophomore Classes, and each contestant will receive private drill in preparation for it.

Each member of the Junior Class pronounces two orations a term. A prize contest in oratory is held in the third term.

For the Senior Class, the work is optional. A prize is offered for the best oration on Commencement day.

Special attention is given to Debate. Every student is urged to take an active part in the work of the Literary Societies. During the Junior year there are three public debates, the last of which is a prize debate.

**Public Speaking.**—This course will include respiration, cultivation of the voice, pronunciation, and the principles of vocal and gestural expression. Theory will be secondary to practice. The student will receive daily practice in the different modes of expression.

Elective to Sophomores. Third term. Five hours.

**Extemporaneous Speaking.**—An optional course, also, is offered to the Juniors and Seniors in Parliamentary Law and Extemporaneous Speaking, the aim of which is to familiarize the student with parliamentary usage in theory and practice, and to develop by daily exercises ability in extemporaneous speaking.

Elective. Juniors and Seniors. First term. Five hours.

## II. THE ENGLISH LANGUAGE AND LITERATURE.

ENOCH PERRINE, A. M., LITT. D., PROFESSOR.

### I. PREPARATORY WORK.

It is assumed that the student has been thoroughly grounded in the essentials of Grammar; that he has mastered the elements of Rhetoric as presented in Williams's Rhetoric, D. J. Hill's Elements of Rhetoric, or any other of similar grade; and that he is able to express his thoughts clearly and concisely. Special attention is also called to the required reading of English classics—a list is given on page 24—and it is presumed that by reading them the student has become more or less familiar with the leading forms of literary expression—the drama, the novel, the essay, the oration. This reading should not be done as a pastime, but under competent direction, with the end in view of making a scholarly acquaintance with the authors read; and it is desired that at least the authors suggested should be read, in order to secure uniformity of preparation among the members of the class.

### II. AIM AND METHODS.

The aim is to cultivate the power and habit of (1) accurate thinking, (2) correct and effective composition, (3) intelligent criticism of leading English authors, and to acquire (4) a scientific knowledge of the Origin and Development of the English Language. The methods are largely those known as Laboratory Methods, and in all cases where possible, the method of independent investigation is pursued. The course in Rhetoric is after the constructive rather than the critical method, although both kinds are used as occasion demands. The course in English Literature pays less attention to the text-book than to a critical reading, in the class, of the representative work of each author studied. The student is urged to know, rather than to know about, English Literature; and a few, rather than many, authors are carefully studied.

### III. COURSES.

1. **Rhetoric.**—Genung's Practical Rhetoric and Genung's Rhetorical Analysis. Essays every week based on Lewes' Principles of Success in Literature. Analysis of themes, criticisms of plans, and exercises in all the forms of Composition discussed, are required. First term, Sophomore year.

2. **English Literature.**—Emery's Outlines of Notes on English Literature, or Pancoast's Introduction to English Literature, or Painter's Introduction to English Literature. The authors studied and the texts required are Shakespeare's As You Like It, Milton's Comus, Pope's Essays on Criticism, Wordsworth's Poems, selected by Rolfe, Selections from Tennyson. Second term, Sophomore year.



3. **English Oratory.**—A careful study of the English Orators is made, as far as time permits, with reference to the peculiarities of each period, and especially to those of the present day. Baker's *Specimens of Argumentation*, Baker's *Primer of Argumentation*, and Bradley's *Selected Orations* will be pursued; and special work will be required in Quintillian's *Institutes* and *Cicero de Oratore*. As this is one of the electives of the third term, there is opportunity for an extended course. The Library has recently been enriched in this department.

4. **Anglo-Saxon.**—Bright's *Anglo-Saxon Reader*. First term, Senior year, for those who have taken courses 1 and 2.

5. **Shakespeare.**—A study of *Midsummer Night's Dream*, *Hamlet*, and *Tempest*, to show the development of the poet's mind and art. Third term, Senior year, for those who have taken courses 1 and 2.

6. **The Essay and Oration.**—Lectures are given during the first term to the Freshmen on "The Essay and Oration," as an especial preparation for the practical work of the course, and supplementary to the work assumed to have been done in the preparatory schools.

7. **English Versification.**—On the successive Thursday mornings of the third term, a course of lectures is given to the Sophomore Class on English Versification as shown in Tennyson, alternating with lectures on the Development of the English Language.

8. **Advanced Composition** for those who have taken courses 1 and 2. Text-books, Scott and Denney's *Paragraph-Writing*, Carpenter's *Advanced Composition*, Lamont's *Specimens of Exposition*, Brewster's *Specimens of Narration*, and Baldwin's *Specimens of Prose Description*. Second term, Junior year.

9. **Essays and Orations.**—The Freshmen are required to present two essays in the first term, and three in the second and third terms, respectively; the Sophomores, three essays each term; the Juniors, two orations, and the Seniors one oration each term. The orations presented at the exercises of the Junior Exhibition and Commencement will be received as two of the required orations. Both Essays and Orations are criticised with the author, if necessary; and in all cases an analysis must be presented.

10. **American Literature.**—During the first term, lectures are given to the Seniors on Bryant, Hawthorne, Longfellow, Lowell, Whittier, and Holmes, as a preparation for those who desire more extended courses in the Subject.

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## HONOR COURSES IN ENGLISH.

11. Chaucer, his language and thought. A study of Middle English for those who have taken courses 1 and 2.

12. Milton's *Paradise Lost*, R. C. Browne's *Milton*, and S. A. Brooke's *Life of Milton*, with required Theses, for those who have taken courses 1 and 2.

13. Skeat's *Specimens of English Literature, 1394-1579*, for those who have taken courses 1 and 2.

14. Skeat's *Piers the Plowman*, for those who have taken courses 1, 2, and 4.

15. *The Ormulum and The Ancren Riwe*, Sweet's edition, for those who have taken courses 1, 2, and 4.

### III. THE LATIN LANGUAGE AND LITERATURE.

FRANK ERNEST ROCKWOOD, A. M., PROFESSOR.

LEO GUIDO CHARLES RIEMER, A. B., INSTRUCTOR.

Students in the Classical Course and in the Latin Philosophical have four terms of required work in this department and seven of elective. Honor courses are offered in every term except the first term of the Freshman year.

In the prescribed work, the courses given and the methods of instruction employed are designed to give the student accuracy and facility in translating Latin into correct idiomatic English; the ability to read and appreciate the text in the original; a general acquaintance with the growth and development of the language and literature; a knowledge of the leading facts in Roman history; and some degree of familiarity with the life of the people. In the first term, the text is carefully studied, with special reference to forms and constructions, and considerable time is given to written translations and to oral and written composition. It is believed that in this way the faithful student can become thoroughly grounded in the elements of the language and be prepared to carry on his subsequent reading with pleasure and profit. After the first term, historical and literary topics are given greater prominence. Collateral reading is required in Liddell, Merivale and Capes. Wilkins' Primer, supplemented by lectures, is made the basis of an outline course on Roman Literature.

In the elective courses a wide range of reading is offered. While particular lines of study have been marked out, different authors may be substituted in place of those announced in the catalogue. In all cases it is the intention to suit the work to the needs of the class. Provision is made for those who wish by varied reading to gain as large an acquaintance with the literature as possible and also for those who desire to make a specialty of Roman history or philosophy. Students intending to become teachers are aided and directed in their work with that object in view. In the elective courses, less time is devoted to formal recitations than is the case in the prescribed work, while more attention is given to the preparation of papers on assigned topics by members of the class and to lectures and discussions by the instructor. Lectures are given on Roman Antiquities, and these, so far as possible, are illustrated by wall-pictures, plates and photographs.

Candidates for the degree of Sc. B. may take Latin during the Freshman year, if they so elect. For this purpose special courses in Nepos, Sallust, and Ovid have been established. Scientific students are thus given an opportunity to supplement their preparatory Latin and at the same time to receive the linguistic and literary training afforded by a year's drill in reading Latin authors. This work is under the charge of Instructor Riemer. The books used are Rolfe's Nepos, Herbermann's Sallust, Kelsey's Ovid.

The following courses, though designed more especially for students in the Arts and Philosophical courses, are open as electives to students in the Science Course, who may be qualified to pursue them:

COURSES: 1-4 required; 5-11 elective.

1. **Cicero:** *De Senectute*. Livy: Book I. Review of special topics in Latin Grammar. Oral and written exercises in Prose Composition, based upon the text. Translation at sight and at hearing. First term, Freshman year.



2. **Livy:** Books XXI and XXII. Latin Prose Composition, based upon the text. Roman History: Special chapters in Liddell. Second term, Freshman year.

3. **Velleius Paterculus:** Roman History. **PLINY:** Selections from the Epistles. Translation at sight. Latin Prose Composition, based upon the text. Roman History: Capes' Early Empire. Third term, Freshman year.

4. **Horace:** Selections from the Satires, Odes and Epistles. Prosody. Lectures on Roman life in the time of Augustus. Historical outlines of the Latin Language and Literature; Wilkins' Primer; Lectures. First term, Sophomore year.

5. **Juvenal:** Selected Satires. Translation at sight. Roman History. Capes and Merivale. Roman Antiquities; Lectures. Third term, Sophomore year.

6. **Quintilian:** Books X and XII. Selections from Book I, at sight. Roman Literature; Readings from Cruttwell and Teuffel. First term; open to Juniors and Seniors; alternating with 9.

7. **Latin Poets:** Selections from Catullus, Lucretius, Tibullus, Propertius, Ovid and Lucan. Lectures and collateral reading upon topics suggested by the authors studied. Second term; open to Juniors and Seniors.

8. **Cicero:** *De Natura Deorum*. The object of this course is to give the student an outline of the Stoic, Epicurean, and Academic systems of philosophy. Members of the class are required to prepare papers upon special topics. Third term; open to Juniors and Seniors; alternating with 11.

9. **Tacitus:** *Agricola*; *Germania*; *Annals*. Large amounts are read at sight. Special topics in Roman History are assigned for study. First term; open to Juniors and Seniors.

10. **Roman Law:** Instruction is given by text-book (Morey's) and by lectures. Students are required to read on assigned topics and to make reports upon the same to the class. Second term, Senior year.

11. **Seneca:** Selections from his Moral Essays. Special study of his life, times, and Philosophy. Third term; open to Juniors and Seniors.

#### HONOR COURSES IN LATIN.

12. **Ovid:** *Metamorphoses*; *Tristia*; *Fasti*.

13. **Cicero:** Letters; *De Officiis*; *Brutus*.

14. **Tacitus:** Histories. **SUETONIUS;** *De Vita Caesarum*.

15. **Plautus and Terence:** Selected plays. Allen's Remnants of Early Latin. Wordsworth's Fragments and Specimens of Early Latin.

16. **Tertullian:** The Apology. **LATIN HYMNS.**

The following books are used: Rockwood's *Cicero de Senectute* and *Velleius Paterculus*; Lord's *Livy*; Hopkins' *Agricola* and *Germania* of Tacitus; Platner's *Pliny*; Lincoln's *Horace*; Lindsay's *Juvenal*; Frieze's *Quintilian*; Crowell's Selections from Latin Poets; Stickney's *Cicero de Natura Deorum*; Allen's *Tacitus' Annals*; Morey's *Roman Law*; Hurst and Whiting's *Seneca*; Allen and Greenough's *Ovid*; Holden's *Cicero de Officiis*; Fowler's *Plautus*; West's *Terence*; Kellog's *Cicero's Brutus*; Tyler's *Histories of Tacitus*; Peck's *Suetonius*; March's *Tertullian* and *Latin Hymns*. Allen and Greenough's and Harkness' *Latin Grammars*; Harper's *Latin Dictionary*.



## IV. THE GREEK LANGUAGE AND LITERATURE.

THOMAS FRANKLIN HAMBLIN, A. M., PROFESSOR.

## I. PREPARATION.

It is expected that the student in his preparatory course has mastered the Attic forms, the most common principles of syntax, the "principal parts" of the most common irregular verbs, and the correct writing of simple Greek sentences. He ought also to be able to read the Greek text fluently and to understand short Greek sentences when spoken to him. To facilitate this end, it is recommended that the Greek text be read orally from the beginning of the study of the language, and that composition in Greek be continued through the whole of the preparatory course. Much help may be obtained from "Natural" and "Inductive" methods. While a definite amount of the *Anabasis* and *Iliad* is required, yet quality of work is preferred to quantity. It is desired that the preparatory course be made, as far as possible, a mastery of the principles of the *language*, that the literature and civilization of the Greeks may occupy the larger part of the student's attention in his subsequent study.

## II. AIM AND METHODS.

The first end sought is an accurate and thorough knowledge of the language as a means of discipline to the mind and as the key to the literature. The first part of the Freshman year is devoted largely to grammatical topics in connection with the author read. But the student is encouraged to gather facts and to formulate principles from the text rather than to memorize the standard grammars. Translation into idiomatic English is required, yet as near as possible to the literal of the original. Translation at sight and at hearing is practiced during the whole course as the needs of various classes seem to require. All possible inducements are offered to make the student self-reliant and independent in his work.

The literature, history, social and political ideas of the Greeks, their position in ancient civilization and relation to modern life and thought, are topics which occupy a very important part of the work in this department. In this way it is sought to inspire a living interest in the civilization of ancient Greece, to show the essential unity of history, and to encourage the study of ancient life for the lessons which it has for the present time.

## III. COURSES.

1. **Lysias.**—Selected orations are read almost exclusively as a study of *language*. Review of the more difficult parts of Greek Grammar. Special attention to the translation of the syntax of the Greek verb. Weekly exercises in Greek Prose Composition. Occasional written translations and examinations. First term, Freshman year.

2. **Herodotus and Thucydides.**—Selected portions of one or both authors. Peculiarities of dialect of Herodotus. Formation and derivation of words. Literal translation. Reading of assigned portions of standard Greek histories. Second term, Freshman year.

3. **Homer.**—Odyssey, Books 1, 2, 6-8. Dialect, metre, syntax, style. Topics for investigation assigned to members of the class. The object sought is to help the student to understand and to appreciate, rather than to criticise, the Homeric Poems. Third term, Freshman year.

4. **Xenophon.**—Selected portions of the Memorabilia. The life of Socrates. For students in the Philosophical course. First term, Sophomore year; also an elective for the Juniors during the first term.

5. **Demosthenes.**—Olynthiacs and Philippics. History and Politics of the Macedonian Period. Lectures on the Greek poets. Second term, Sophomore year.

6. **The Greek Drama.**—Sophocles or Euripides. For the present, the *Œdipus Tyrannus* is read. The origin and development of the drama, the Greek theatre, and the metres of the drama. First term, Senior year.

7. **Plato.**—The Apology and Crito. Philosophy and religious ideas of Socrates. The Sophists. Topics for investigation in standard authors. Extracts from the Memorabilia at sight. Second term, Junior and Senior years, alternating with course 8.

8. **Demosthenes.**—De Corona. Designed to supplement course 5 and to make a critical study of the oratory of Demosthenes from both a literary and political point of view. Second term, Junior and Senior years, alternating with course 7.

9. **New Testament, Greek. (A).**—The Gospel according to Luke, with sight reading of the Gospel according to Matthew. A course in rapid reading, designed to familiarize the student with the style, so that he may continue to read the Greek New Testament throughout his College course. Second and third terms, Freshman year, one hour a week.

10. **New Testament, Greek. (B).**—The Acts of the Apostles and the Epistles of John. Third term, Senior year.

#### IV. HONOR COURSES IN GREEK.

11. **XENOPHON.**—The *Œconomicus*. A study of social life in Greece. Sophomores and Freshmen. Winter term. One hour a week.

12. **THE ODYSSEY.**—Selections. Sophomores and Freshmen. Spring term. One hour a week.

13. **ONE PLAY OF SOPHOCLES OR EURIPIDES.**—Seniors and Juniors. Winter term. One hour a week.

14. **PLATO.**—The *Phædo*.—Intended as an introduction to a study of Greek Philosophy.—Seniors. Fall term. One hour a week.

#### V. TEXT-BOOKS.

Stevens' Select Orations of Lysias; Mather's Selections from Herodotus and Thucydides; Merry's Odyssey, Books 1-12; Seymour's Introduction to the Language and Verse of Homer; Tyler's Olynthiacs and Philippics; White's *Œdipus Tyrannus*; Dyer's Plato's Apology and Crito; Winans' Memorabilia; D'Ooge's De Corona Holden's *Œconomicus* Wagner's *Phædo* Scrivener's or

Wescott and Hort's Greek Testament ; Goodwin's Greek Grammar ; Goodwin's Greek Moods and Tenses ; Liddell and Scott's Greek Lexicon, Seventh Edition ; Oman's History of Greece ; Allinson's Greek Prose Composition.

## V. THE HEBREW LANGUAGE.

LINCOLN HULLEY, PH. D., PROFESSOR.

It is the aim of this course to give the student a working knowledge of the Hebrew language.

1. **Elements of Hebrew.**—Inductive Method, Alphabet, Grammar, Forms, Vocabulary, Translation and Transliteration of Hebrew into English and English into Hebrew, Accents and Signs. Harper's Method and Manual.

Senior and Junior elective. Second term, five hours.

2. **Advanced Hebrew.**—Word Lists, Rapid Reading, Sight Translation, Elements of Advanced Grammar, Syntax, and Principles of Textual Criticism.

Senior and Junior elective. Third term, five hours.

3. **Cognate Languages.**—Instruction is offered in the elements of Arabic, Aramaic, Syriac, Assyrian, Ethiopic, and Talmudic Hebrew.

Open as an honor to Seniors and Juniors.

## VI. MODERN LANGUAGES.

FREEMAN LOOMIS, PH. D., PROFESSOR.

ELYSEE AVIRAGNET, A. M., INSTRUCTOR IN THE ROMANCE LANGUAGES.

LEO GUIDO CHARLES RIEMER, A. B., INSTRUCTOR IN THE GERMAN LANGUAGE.

In the Classical Course the study of German begins with the third term of the Sophomore year, and may be continued in a daily recitation through the whole of the Junior and Senior years. In the same course the study of French begins with the first term of the Junior year, and may be continued in a daily recitation to the end of the Senior year. The first term in each study is required, the others are elective. As it is optional with students to take both electives, the schedule permits of thirteen terms of Modern Language study—six in French and seven in German—the recitations in all cases being for one hour five times a week.

Courses of study and text-books used in connection therewith are subject to change, but the following outline indicates the general scope of the work pursued.

### GERMAN.

1. **Elementary Course** (Classical Course only, required).—Whitney's Brief Grammar, with translation of German exercises into English. Review of



Grammar, with translation of English exercises into German. Irregular verbs. Memorizing of selected passages. Writing from dictation. Storm's *Sprechübungen*. Translation of one hundred pages of Reader.

**2. Intermediate Prose Course.**—(Elective for all courses).—Devoted chiefly to the rapid reading of easy prose, with a view of acquiring an enlarged vocabulary and preparatory to the reading of the classics. Hauff's *Das Kalte Herz*. Riehl's *der Fluch der Schönheit*. Storm's *Immensee*. Heyse's *l'Arrabbiata*. Hoffmann's *Historische Erzählungen*. Translation at sight. Balladen und Romanzen. Prose Composition.

**3. Schiller's Works.**—(Elective for all courses).—Maria Stuart, Wilhelm Tell, Jungfrau von Orleans, Wallenstein. Collateral reading in historical prose. Deutsche Lyrik. Prose Composition.

**4. Goethe's Works.**—(Elective for all courses).—Egmont, Iphigenie auf Tauris, Tasso. Collateral reading. Scientific German: Helmholtz's *Über Goethe's Naturwissenschaftliche Arbeiten*; Cohn's *Über Bakterien* and other monographs. Prose Composition.

**5. Lessing's Works.**—(Elective for all courses).—Minna von Barnhelm, Nathan der Weise, Lessing's Prose. Collateral reading. Comedy. Prose Composition.

**6. Modern Authors.**—(Elective for all courses).—Selections from the works of Fouqué, Körner, Tieck, Heine, Freiligrath, Auerbach, Baumbach, Seidel, Scheffel. The Romantic School. Prose Composition.

**7. Advanced Prose Course.**—(Elective for all courses).—Designed to give facility in translating difficult prose. Meyer's *Gustav Adolf's Page*. Freytag's *Doktor Luther*. Lessing's *Laocoön*. Freytag's *Technik des Dramas*. History of German Literature. Prose Composition.

## FRENCH.

**1. Elementary Course.**—(Classical course only, required).—Whitney's *Brief Grammar* with translation of French Exercises into English. Review of Grammar, with translation of English Exercises into French. Irregular verbs. Memorizing of selected passages. Writing from dictation. Storm's *Dialogues Français*. Translation of 150 pages of Reader.

**2. Intermediate Prose Course.**—(Elective for all courses).—Devoted chiefly to the rapid reading of easy narrative prose and modern dialogue, with a view to acquiring an enlarged vocabulary and preparatory to the reading of the classics. Souvestre: *Un Philosophe sous les Toits*. Alfred de Musset: *Pierre et Camille*. Feuillet: *Le Roman d'un Jeune Homme Pauvre*. Alfred de Vigny: *Le Cachet Rouge*. Translation at sight. Prose Composition.

**3. 17th Century.**—(Elective for all courses).—French Classics, verse and prose. Selections from the works of Corneille, Racine, Molière, Lafontaine, Mme. de Sévigné, Pascal, La Bruyère, La Rochefoucauld, Bossuet, Fénelon. Modern texts descriptive of the period. Prose Composition.

**4. 18th Century.**—(Elective for all courses).—Selections from the works of Voltaire, J. J. Rousseau, d'Alembert, Diderot, Mme. de Staël. Modern texts descriptive of the period. Scientific French. Prose Composition.

5. **19th Century.**—(Elective for all courses).—Verse and Theater. Selections from the works of Lamartine, Alfred de Musset, Victor Hugo, Coppée, Augier, Dumas, Sardou, Labiche, Legouv  . Collateral reading. *La Lyre Fran  aise*. Prose Composition.

6. **19th Century.**—(Elective for all courses).—Romance and Criticism. Selections from the works of Alfred de Vigny, Alfred de Musset, George Sand, Balzac, M  rim  e, Daudet, H. de Bornier, Guy de Maupassant, Zola, Loti, Sainte-Beuve, Stendhal, Taine, Brunetiere, Tissot. History of French Literature. Prose Composition.

## SPECIAL COURSES FOR FRESHMEN.

### I. COURSES IN GERMAN.

INSTRUCTOR RIEMER.

Since the grammar is studied as a means to an end, the real object of study is the language, and the aim is the development of a sensitive *feeling*. The pupil learns the similarities between German and other languages and is taught that the sentence, not the word, is the real unit of language.

A study of the fundamental facts of grammar accompanied by prose composition, and exercises in the reading, memorizing, and repetition of connected discourse, comprises the work of the first term.

During the second term the work consists of the translation of easy prose and poetry, composition and conversation on the texts, and the memorizing of poetry.

The work of the third term includes the reading of some classic, conversations, and prose composition.

### II. COURSES IN FRENCH.

INSTRUCTOR AVIRAGNET.

French may be pursued by the Freshmen in the science course throughout the year. The language is taught by the comparative method, affinities between the French language and the English, Latin, and Greek languages being constantly pointed out.

French Syntax is taught by examples and illustrations from readings. The grammar is taught from the language, and not the language from the grammar. Dictation exercises are given from "Whitney's Practical French."

As far as practicable, French only is spoken in the class-room. Extracts are read from the best French literature. Conversations are held in French on the readings, stories are related, and compositions prepared in French by the pupil.

The aim is to teach the language so that it can be spoken correctly.

## VII. MATHEMATICS.

WILLIAM CYRUS BARTOL, PH. D., PROFESSOR.

ALBERT BURNS STEWART, A. M., INSTRUCTOR.

Courses 1-6 constitute a group in Pure Mathematics, designed as a preparation to the required courses in Mechanics, Physics, and Astronomy, and as a sufficient basis for the electives in Higher Mathematics. They are required of every candidate for a degree.

Courses 7-10 constitute a group in Higher Mathematics intended for those who wish to make mathematics a principal subject of study. Course 7 is required



of Sophomores in the Latin Philosophical, and Scientific courses, and is elective to Juniors in the Classical and Greek Philosophical courses. Courses 8-10 are open to all who have completed courses 1-6. Courses 8 and 12 alternate annually with courses 9 and 10.

Courses 11-14 are in Applied Mathematics; course 11 is required of all candidates for a degree; course 12 is open to all who have completed courses 1-6 and is offered biennially, alternating with course 10. Courses 13 and 14 are elective.

1. **Solid Geometry.**—The course includes the geometry of solids with plane surfaces, the cone, the cylinder, the sphere and the spherical triangle. Six weeks are given to the subject. Freshman year, first term, five hours.

2. **College Algebra.**—The topics are indeterminate equations, ratio and proportion, variation, progressions, the binominal theorem, convergency of series, undetermined coefficients, logarithms, permutations, and combinations. Eight weeks are given to the subject. Freshman year, first term, five hours.

3. **Derivatives.**—The course is intended to give to those who do not wish to specialize in mathematics an idea of the methods of the calculus. It is supplementary to the course in College Algebra and affords concise proofs of its most important theorems. Freshman year, second term, one hour.

4. **Trigonometry.**—The course includes Plane Trigonometry, with application to problems in mensuration and surveying, and Spherical Trigonometry, with some application to problems in astronomy. Freshman year, second term, five hours.

5. **Analytical Geometry.**—The student is taken through the elementary properties of the right line, the circle and the conic sections. The course is intended to give a clear conception of the methods of Cartesian Analysis rather than an extensive knowledge of its results. Freshman year, third term, five hours.

6. **Linear Perspective.**—A course of twelve lectures, designed to familiarize the student with the principles of perspective, and to give him an insight into their manifold applications. Sophomore year, first term, one hour.

7. **Advanced Algebra.**—The course includes infinite series, the theory of equations and the theory of determinants. Second term, five hours.

8. **Advanced Analytical Geometry.**—The course includes the geometry of three dimensions, surfaces of revolution and higher plane curves. Third term, five hours.

9. **Differential Calculus.**—The course includes the development of functions into series, evolution of undetermined forms, determination of maxima and minima, and applications to the theory of curves. Third term, five hours.

10. **Integral Calculus.**—The course covers methods of integration by parts, by substitution, by successive reductions, and by series. Applications to problems of geometry and mechanics are made. First term, five hours.

11. **Astronomy.**—The aim is to treat Astronomy not merely as an application of mathematics, but as a science, which forms an essential part of a finished education. The subject is taught by text-book, with illustrations in the ob-



servatory, and lectures. There is free use by the students of the ten-inch equatorial telescope. Junior year, third term, five hours.

**12. Practical Astronomy.**—Observations are made for time and to determine the errors of the transit instrument. The use of the micrometer is taught, and the value of one revolution of its screw is determined experimentally. Observations are made for azimuth, and for latitude and longitude. First term, five hours.

**13. Surveying.**—In compass and transit surveying a careful study of the necessary instruments is made. The student is taught their adjustments and the best methods of reducing their errors. He is required to do considerable practice work in the field. Such tables and methods are furnished him as will enable him to undertake the retracing of old lines. The system practiced by the government in the survey of public lands is fully set forth. Directions are given for running contours and sketching topography. First term, five hours.—INSTRUCTOR STEWART.

**14. City Surveying and Civil Engineering.**—Town sites are located and plotted; permanent reference points and bench-marks are established; grades and sewers are determined, and property lines staked out. Instruction is given in the theory of railroad curves, switches, and turn-outs. A corps is organized, which makes a preliminary survey and locates a cross-country railroad. For this the grade and ditch stakes are set and the curves determined, specifications are drawn up and estimates made of the line surveyed. Third term, five hours.—INSTRUCTOR STEWART.

The following books are used: Bartol's Geometry, Wells' College Algebra, Bowser's Plane and Spherical Trigonometry, Nichol's Analytical Geometry, Hardy's Calculus, Carhart's Plane Surveying, Olmsted's College Astronomy, Greene's Practical Astronomy.

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## VIII. PHYSICS.

WILLIAM GUNDY OWENS, A. M., PROFESSOR.

The Department of Physics offers five courses, three of which are required of all candidates for a degree; one is elective, and one is an honor course.

1. Mechanics of Solids, Liquids, and Gases. This course consists of lectures, demonstrations, and recitations, appropriately illustrated.

Required. Junior year, first term, five hours.

2. Sound, Light, and Heat. Study of text-book, lectures, and experiments.

Required. Junior year, second term, five hours.

3. Magnetism and Electricity. Lectures with experiments.

Required. Junior year, second term, one hour.

4. Magnetism and Electricity. An experimental course, open as an elective to those who have taken courses 1 and 2. Experiments are made by the students, and, where practicable, absolute measurements are taken.

Elective. Third term, five hours.

5. Students who desire, may take an **Experimental Course** in the Laboratory, devoting about five hours a week to laboratory work. Such work is taken in addition to the required class-room work, and if a grade of nine or more is attained, the work is credited as an "Honor Study."

Students who have completed the general course in Physics and the experimental course, may take up special lines of investigation under the direction of the Professor.

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## IX. CHEMISTRY.

WILLIAM GUNDY OWENS, A. M., PROFESSOR.

FREDERICK WILLIAM BROWN, LABORATORY ASSISTANT.

1. **Lectures** are given during the third term of the Freshman year to acquaint the student with the scope and aims of chemical study, and by suitable experiments to explain the value of laboratory work and the methods used.

2. **Descriptive Chemistry** is taught by text-book and lectures. The object of the course is to give the student a general knowledge of the most common elements—their sources, use, compounds, and behavior towards other elements and compounds, and to drill the student in writing formulæ and solving chemical equations. To accomplish this, each student will be expected to spend at least five hours each week in the Laboratory, studying the characteristics and reactions of the elements and their compounds, and performing the more simple experiments outlined in the text and lectures. Notes will be kept by each student, describing the experiment and giving the equation which represents the reactions that take place. The Professor will, from time to time, examine the note-books, and make such suggestions as he thinks helpful.

3. **Analytical Chemistry** is open to those only who have completed Descriptive Chemistry. In this course, students examine a number of known solid and liquid substances, noting their reactions. They are then given unknown substances, several in one mixture, which they are required to determine. The course is completed when fifty unknown mixtures have been determined and correctly reported.

4. **Quantitative Analysis** comprises those determinations which will be most useful to the general student. It also offers to the specialist an opportunity to become acquainted with the methods of separation and manipulation. It is open to those who have taken General and Analytical Chemistry.

5. **Organic Chemistry** extends through the year. During the first term the members of the Paraffin series and their derivatives are studied. The theoretical basis is kept constantly in view, while the preparation of the simplest and most characteristic compounds prevent the work from becoming simply an act of memory.

6. **The Benzene Series** and derivatives are studied in a similar manner during the second term.

7. **Ultimate Organic Analysis** occupies the third term. Such determinations are made as will best illustrate the methods used and give the student practice in the manipulation of apparatus.



8. **Toxicology and Medical Chemistry** consists of the detection of the most common poisons, the symptoms of poisoning, etc., with practice in the detection of impurities in foods and drugs.

9. **Water Analysis** includes the study of potable and mineral waters, with the quantitative determination of their ingredients.

10. **Chemical Philosophy and Theories** is designed to bring before the student the laws and theories upon which modern chemistry is based in such a way that he can get a complete view of the subject.

Any of the above elective courses can be taken as honors.

THE CHEMICAL AND PHYSICAL SOCIETY holds meetings bi-weekly to discuss questions in Chemistry and Physics.

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## X. ORGANIC SCIENCE.

GEORGE G. GROFF, M. D., LL. D., PROFESSOR.

NELSON FITHIAN DAVIS, SC. B., ASSISTANT.

In this department it is the constant aim to teach students how to interpret nature. The student is guided in his studies by lectures and laboratory manuals.

In courses 3, 4, 5, 6, 8, 9, and 11 the student should reserve on his program about ten hours each week for laboratory exercises. A small fee is charged in all the laboratory courses.

Medical students who desire to complete their professional studies in three years, should take courses 1 to 9.

1. **Hygiene.**—A course of six lectures on the Elements of Personal Hygiene, First term, Freshman year. Required.

2. **Animal Physiology.**—The principles of Human and Comparative Physiology, taught by lectures and illustrated by a life-sized French manikin, skeletons, and charts. Second term, Sophomore year, five hours. Required.

3. **Normal Histology and Embryology.**—Text-book recitations, lectures, and laboratory work. This course should be preceded by courses 2, 6, and 7 Junior year. Elective.

4. **Human Osteology and Comparative Anatomy.**—Text-book recitations, lectures, and laboratory work. This course should be preceded by courses 2, 6, and 7. Junior year. Elective.

5. **Human Anatomy.**—Recitations and dissections. This course should be preceded by courses 2, 3, 4, 6, and 7.

6. **Biology.**—Recitations, lectures, and laboratory work. This course should be preceded by courses 2 and 7. Junior year. Elective.

7. **Zoölogy.**—Recitations, lectures, and laboratory work. This course should be preceded by courses 2 and 9. Junior year. Elective.

8. **Sanitary Science.**—A course of ten lectures on the Elements of Sanitary Science. Sophomore year.



9. **Botany.**—Recitations, lectures, and laboratory work. Third term, Sophomore year.

10. **Plant Histology.**—Lectures, recitations, and laboratory work. Junior year. Elective. Course 9 must precede this course.

11. **Dynamical Geology.**—A course of twelve lectures. Third term, Junior year. One hour. Required.

12. **Mineralogy and Geology.**—Recitations, lectures, and laboratory work. The first part of the term will be devoted to Mineralogy, the second part to Geology. First term, Senior year. Elective.

THE NATURAL HISTORY SOCIETY has been formed to encourage original work in the organic sciences. It is open to all professors and students of the college, and holds meetings bi-weekly.

## XI. ECONOMICS AND SOCIAL SCIENCE.

1. **Economics** is considered as the science of exchanges, and is followed into its practical applications in manufacturing, banking, national credit, and international commerce, with illustrations from well-known facts and current events. It is insisted that any stable system of economy must find its foundation in ethical principles.

There will be held daily recitations from Ely's Outlines of Economics and Marshall's Principles of Economics, supplemented by lectures, and by debates on the part of the class, and ample opportunity is afforded for original investigation, the Library being especially rich in this department.—PROFESSOR PERRINE.

2. **American Constitutional Law** is offered as an elective to those members of the Senior and Junior Classes who have taken American Constitutional History. The work consists not so much in a study of the Constitution itself as in a study of the law that has grown out of the Constitution during a century of use. Cooley's Constitutional Law is made the basis of work in the class-room, while special topics are assigned for individual study and subsequent discussion in the class-room.

Reference is made to Hare's American Constitutional Law, Baker's Annotated Constitution of the United States, Cooley's Constitutional Limitations, and Constitutional History as Seen in American Law.—PROFESSOR HAMBLIN.

3. **American Civics** is offered to the Juniors and Seniors who have studied Constitutional History. The aim is to study the workings of the State and National governments in their various departments.—PROFESSOR HAMBLIN.

Courses 2 and 3 are given in the third term of alternate years.

4. **Roman Law** may be taken as an elective in the second term of the Senior year. The subject is treated historically. Morey's Roman Law forms the basis of the work. The text-book is supplemented by lectures and collateral reading.—PROFESSOR ROCKWOOD.

5. **Sociology.**—An honor course in Sociology is offered by Dr. Wayland. This will consist (1) of a report of the lectures of Dr. Wayland; (2) of the reading some work on Sociology with analysis of its subject-matter; (3) of a thesis of not less than a thousand words based on field work done by the student.

## XII. MEDIÆVAL AND MODERN HISTORY.

LINCOLN HULLEY, PH. D., PROFESSOR.

A somewhat extensive acquaintance with Ancient History is a requirement for admission, and courses in the History of Ancient Greece and Rome are given in connection with the study of the classical literatures. The historical course in this Department is devoted, first, to the History of Mediæval Europe, with a view to ascertaining the principles which have governed its social and political development; secondly, to the History of Modern Nations, with the object of showing how have been evolved the form and character of its States as they now exist. The method of study is a varied one, being by text-book, lectures, and topics assigned for individual research. Courses 2 and 3, 4 and 5, 6 and 7 alternate annually.

The following courses are offered:

1. Mediæval Europe. (1) Subjects:—The Germanic Invasions, Roman Christianity, Rise of Mohammedanism, German Ideas of Law, The Age of Charlemagne, Foundations of Mediæval Europe, Feudal System, Rise of the Papacy, its Degradation and Restoration, the Struggle between the Empire and the Papacy, Domination of the Papacy, Society and Intellectual Life of the Middle Ages. (2) Texts:—The class will use Emerton's Introduction to the Middle Ages and Emerton's Mediæval Europe; and will also read extensively in Milman's Latin Christianity, Bryce's Holy Roman Empire, Duruy's Middle Ages, and in Neander, Kurtz, Schaff, Church, Adams, Stillé, Oman, Guizot, and others.

Senior Elective. First term. Five hours.

2. Modern Europe, A. D. 1350—A. D. 1648. Subjects:—Decline of Feudalism, Revival of Learning, Rise of Modern Institutions and States, The Protestant Reformation, The Thirty Years' War, The Counter Reformations and the Catholic Opposition in the Inquisition, Jesuit Order and Council of Trent. The class will use the texts of Seebohm and Gardner in the Epochs series.

Senior and Junior Elective. Second term. Five hours.

3. Modern Europe, A. D. 1650—A. D. 1870. Subjects:—The Age of Louis, The Dutch Republic, Peter the Great, The Rise of Prussia, The Decline of Austria, The French Revolution, The Unification of Italy, and The New German Empire. The class will use the texts of Langman and Gardner.

Senior and Junior Elective. Third term. Five hours.

4. History of England. Subjects:—Invasions and Early Settlements, Saxon Civilization, The Danish Invasion, The Norman Conquest, and the Political, Religious, Social, Industrial, and Literary Developments down to the present time. The classes will use Gardner's History of England as a text-book, and will use for reference the Special Histories of Gardner, Hale, Creighton, Morris, Freeman, Seebohm, and McCarthy, and the General Histories of Green and Montgomery.

Senior and Junior Elective. Second term. Five hours.

5. Constitutional History of England. The aim of this course is to trace the development of English Constitutional Law. Subjects:—Saxon Origins, The Witenagemot, Norman Legislation, Parliamentary Organization, Constitution of Clarendon, Magna Charta, Struggle for Charters, Rise of the Commons, The



Tudor Monarchy, Strife between King and Parliament, The Puritan Revolution, Supremacy of the House of Commons. The class will use Taylor's text.

Senior and Junior Elective. Third term. Five hours.

6. American Colonial History. Subjects:—Discovery—Settlement—Expansion—Independence. Colonial charters, conventions, government, and social conditions; Spanish, French, and English communities; Conquest of Mexico and Peru; The Making of New England; Relations to the Old World; Causes, Progress, and Results of the Revolutionary War.

Senior and Junior Elective. First term. Five hours.

7. Constitutional History of the United States. Subjects:—Formation, Analysis, and Interpretation of the Constitution. Its interpretation as expressed in the following subjects: Hamilton's Bank; Assumption of Debts; Alien and Sedition Laws; Kentucky and Virginia Resolutions; Louisiana Purchase; Embargo and Non-Intercourse; Burr's Treason; War of 1812; Hartford Convention; Missouri Compromise; Tariff Legislation; Indian Affairs; Jackson's Bank Veto; Nullification; Currency Measures; Annexation of Texas; Slavery in the Territories; War of Secession; Reconstruction.

Texts:—Von Holst, Hildreth, Schouler, McMaster, Fiske, Hart, Wilson, Johnston, Bryce, American Statesman Series, Annals of Congress, Life and Works of Washington, Hamilton, Jefferson, Adams, Clay, Webster, Calhoun, Seward, etc.

Senior and Junior Elective. Fall term. Five hours.

8. Parliamentary Law and Extemporaneous Speaking. The aim of this course will be:—(1) to familiarize the class with parliamentary usage in theory and practice; (2) to develop ability in extemporaneous speaking; (3) to pursue a definite course of historical study as a basis for the work.

Senior and Junior Elective. Fall term. Five hours.

### XIII. BIBLICAL LITERATURE.

SUPPLIED BY PROFESSOR HULLEY.

The aim of this department is to impart (1) correct methods of Bible study, and (2) an appreciation of the forms and subject-matter of Biblical Literature. The language will be studied inductively, by the aid of Harper's "Introductory Methods and Manual," and Grammar. The English courses will be supplemented by a series of lectures extending throughout the year.

The topics to be treated are as follows:

**Lectures.**—The Bible as a Classic; the Bible as a Library; the Bible in its Formation; its influence on early civilization; the civilizations imbedded in it; its essential ideas and their development; its institutions; its literary forms; the names, order, number, date, destination, purpose, plan, style, contents, teaching, and history of selected books; methods of Bible study; historical methods of interpretation; spirit, motive, present condition, and results of Bible study; the distinctive purpose of the Bible; its Divine Origin and Mission; and the Bible as central and vital in English History, Literature, and Civilization.

1. **Prophecy.** Subjects:—The nature of prophecy; the contents of prophecy; events, stories, sermons, predictions; the historical situations in the



various periods of prophecy; the underlying principles and essentially divine elements of prophecy; the personality of Amos, Hosea, Isaiah, and Jeremiah; the prophets as statesmen, reformers, theologians, ethical teachers and preachers; prophetic historiography and literature. The aim of this course is to give a life-like realism to the prophets' personality, age, and message. Senior and Junior elective. Second term. Five hours.

**2. Psalmody and Wisdom Literature.**—This study includes: The periods and development of Psalmody; the growth of the Psalter; the special religious revivals producing it; its divisions, authors, superscriptions, versions, contents, and the order of the Psalms; the historical occasion of their composition; their various literary forms; their editorial, musical, and liturgical elements, and the following group: The Davidic, Korahite, Asaphic, Maccabæan, Pilgrim, Hallelujah, Coronation, Elegiac, Imprecatory, Alphabetic; and the Psalms of the Exile, the Restoration, and the Later Temple.

All of the Wisdom books will be carefully studied. Senior and Junior elective. Second term. Five hours.

**3. The Founding of the Church.**—The text will be the Acts of the Apostles. The subjects will be the Church's inception, formal organization, initial activity, internal life, missionary enterprise, and the establishment of churches. Senior and Junior elective. Third term. Five hours.

**4. The Pauline Epistles.**—The historical origin, plan, purpose, materials, and characteristics of each; their chronological order; the development and progress of their teachings; and the life, experiences, and views of their author will be studied. Senior and Junior elective. Third term. Five hours.

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## XIV. LOGIC AND ANTHROPOLOGY.

WILLIAM EMMETT MARTIN, A. M., PROFESSOR.

1. A course in Elementary Logic, optional to Juniors, is offered in the second term. This course is designed to utilize (1) the valuable discipline inherent in the study of the science of thought; (2) the practical application of its principles in the analysis of arguments and the conduct of the search for truth; (3) the knowledge of the historical development of the science in the hands of its great masters, and (4) its valuable aid as preparatory to the study of Philosophy and Ethics.

The Manual of Professor Minto will be supplemented by readings in the standard authors, with constant praxis in the detection of fallacious arguments.

2. An advanced course in the history and criticism of Logical Theories, ancient and modern, is offered as an honor study, in the third term of the Junior year, to such students as shall have taken course 1.

3. A course in Descriptive Anthropology is given to the Scientific section of the Freshman class during the third term. It is designed to prepare the student for the appreciative study of Ethnology and Languages, of Archæology and History. Tylor's text-book serves as the basis of study, with readings and discussions on the chief authorities and current publications.

4. An honor course in Anthropology with special reference to the origin and development of Art, Science, and Religion, is offered to Juniors and Seniors in the first term.

5. The instruction in American Literature given to the Scientific Freshmen in the first term aims to acquaint the pupil with the masterpieces of American authorship in a general survey, and is preparatory to the more detailed and critical study of selected authors offered in the Senior year. The text-book of Hawthorne and Lemmon serves as a critical, biographical, and historical guide to the student.

## XV. MENTAL AND MORAL PHILOSOPHY.

### THE PRESIDENT.

The studies in this department embrace Psychology, Philosophy, Education, Ethics, and Theism. The method of instruction is by text-book, recitation, expository lectures, class discussions, and collateral reading. Written examinations and theses on assigned subjects test and deepen the student's knowledge. The gift recently, by friends, of a thousand dollars' worth of books in this department enables the students to pursue extensive courses of collateral reading. In this way the monographic treatment of text-book study is broadened, and the student is trained to become an investigator.

Besides the following courses offered by the Professor in charge, courses are also offered by the Professor of Greek in the philosophy and religious ideas of the Greeks, as shown in Plato's *Apology*, and in Greek Philosophy, in connection with the study of the *Phædo*; and by the Professor of Latin, in the Stoic, Epicurean, and Academic systems of Philosophy, in connection with the study of *Cicero De Naturâ Deorum*, and in Ancient Morals, in connection with the study of Seneca.

### SCHEDULE FOR 1896-'97.

1. Psychology. Höffding.  
Reading in Ladd's *Physiological Psychology*, James' *Psychology*, Porter's *Human Intellect*, and other authorities.  
Seniors. First term. Five hours.
2. Honor course. Hamilton's *Metaphysics*.  
Seniors. First term.
3. History of Education. Lectures.  
Juniors. First term. One hour.
4. Ethics. Robinson. Lectures and Readings.  
Seniors. Second term. Four hours.
5. History of Philosophy.  
Lectures, Theses, and Readings.  
Seniors. Second term. Two hours.
6. Honor course. Philosophy of Education. Rosenkranz.  
Seniors. Second term.
7. Honor course. *Physiological Psychology*. Ladd.  
Seniors. Second term.
8. Philosophy of Religion. Diman's *Theistic Argument*, and Lectures.  
Seniors. Third term. Five hours.
9. Honor course. Bowen's *Modern Philosophy*.  
Seniors. Third term.
10. Honor course. *Grundzüge der Psychologie*. Lotze.  
Seniors. Third term.



## LIBRARIES AND APPARATUS.

### THE LIBRARIES AND READING-ROOM.

*Librarian* : PROFESSOR WILLIAM E. MARTIN, A. M.

*Assistant* : FRED BURTON HUNT.

**The College Library.**—The general library contains 16,000 volumes. A reading-room is connected with it. During term-time, both are open forenoon, afternoon, and evening of each day, Sundays and holidays excepted, and both are maintained at the expense of the University without extra charge to students. Students are allowed to draw two books at one time and to retain them for two weeks.

The library has now entirely outgrown its former accommodations, but the completion of the new Laboratory building has left vacant the large adjoining room, which is now used for library purposes.

The library is regarded as a working laboratory for all departments of instruction, students being constantly cited to it in class-room work. In this way, while answering the purpose of general culture, it supplements, in great measure, the monographic treatment of text-book study, and the student is trained under competent guidance to become an investigator. The resulting practical acquaintance with books and bibliography proves a valuable part of liberal education. That the demands thus made upon it may be met, it is the purpose to have the library so systematized that all its resources on any given subject shall be at once available.

Of the additions during the year, seven hundred and fifty volumes were newly bound Reviews and Magazines, four hundred volumes were given by Mr. Wm. J. Coxey, of Camden, N. J., towards the Alcove of Biblical and Religious Literature, to bear his name, and the remainder were contributed by the following friends :

The American Baptist Publication Society, the Anthropology Class of 1895, Hon. L. E. Atkinson, E. Aviragnet, Mus. D., Mrs. M. M. Barber, Prof. W. C. Bartol, Ph. D., Hon. S. D. Bates, E. M. Beale, Esq., Miss Emma Beaver, G. B. Bertollette, Henry Blackmore, A. E. Bower, J. W. Brentlinger, J. F. Brown, D. D., Colby University Library, W. H. Conard, D. D., E. A. Cornell, M. W. Cramer, H. E. Deats, Denison University Library, J. Dobbs, Prin. T. A. Edwards, A. M., T. G. Evans, Prof. Wm. Frear, Ph. D., Hon. B. K. Focht, Rev. A. J. Furman, Mrs. H. Gerh art, T. A. Gill, D. D., Calvin Greene, W. C. Gretzinger, Ph. B., Prof. G. G. Groff, M. D., Col. M. R. Hamilton, Pres. J. H. Harris, LL. D., Hon. W. T. Harris, LL. D., Alfred Hayes, Esq., S. H. Himmelreich, Eben C. Jayne, Esq., Mrs. K. B. Larison, A. M., Rev. D. P. Leas, A. M., W. T. Lewis, Craige Lippincott, Geo. E. Long, Ex-Pres. J. R. Loomis, LL. D., John S. Lord, Robert Lowry, D. D., Hon. Thad. M. Mahon, Rev. J. R. Merriman, Hon. Charles



Miller, Miss Maud Miller, C. H. Morse, H. G. Norton, M. D., S. H. Orwig, Esq., Prof. W. G. Owens, A. M., Sons of W. H. Parmly, D. D., W. A. Peele, Jr., Prof. E. Perrine, Litt. D., Prin. G. M. Philips, Ph. D., L. G. Powers, Prof. F. E. Rockwood, A. M., Geo. A. Schilling, Geo. W. Schoch, J. W. Shaffer, J. W. C. Shamp, Mrs. C. V. Slifer, Smithsonian Institution, G. M. Spratt, D. D., Mrs. D. A. W. Spratt, Gen. W. S. Stryker, J. M. Sydenstricker, S. J. Thompson, H. E. Tiepke, E. L. Tustin, Esq., R. J. Vance, Volunteer Mission Band, H. G. Wadlin, Jos. K. Weaver, M. D., T. H. Wilson, M. D., J. H. Wingert, B. S., Hon. S. P. Wolverton, A. M., E. A. Woods, D. D., Y. M. C. A. of Hartleton, and the Government Departments at Washington.

**The Reading-Room**, in connection with the general library, is maintained at the expense of the University. By purchase or by contribution, its tables are supplied with the current numbers of between seventy and eighty publications, including the leading scientific, literary, and philological reviews, and magazines and papers of the day.

On shelves adjoining the tables of the reading-room are placed encyclopedias, dictionaries, maps, gazetteers, indices, and complete sets of the leading reviews.

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## THE MUSEUM.

The College possesses a good collection of illustrative materials in Botany, Mineralogy, Geology, and Zoölogy. The specimens are distributed under these classifications and those of Archæology as follows :

Botany.....	1,350
Mineralogy.....	3,000
Geology.....	2,000
Zoölogy.....	4,450
Archæology.....	525
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Total.....	11,325

Additions to the Museum will always be thankfully received, especially of objects which can be used in class-room.

Among these may be mentioned : Zoölogical specimens, especially marine and fresh-water forms of life ; insects ; skeletons of vertebrated animals, birds and mammals ; botanical specimens ; crystallized minerals ; American and especially Pennsylvania rocks.

Contributions have been received for the Museum during the past year from the Eclipse Lubricating Oil Works, of Franklin, Pa. ; Frank M. Simpson, Class 1895 ; N. F. Davis, '95 ; W. B. Sheddan, '95 ; Prof. H. N. Conser, Prof. H. M. Kelley, '86 ; Class 1897, Bucknell Academy ; C. W. Spettigue, Wilcox, Pa. ; Prof. George G. Groff ; J. D. Macnab, Class '96 ; F. C. Fisher, '96 ; Prof. T. F. Hamblin.

## THE ART COLLECTION.

The beginning has been made of a collection of paintings, casts, engravings, and heliotypes, for the illustration of the Fine Arts. The specimens now in possession of the college number about five hundred, of all kinds, and furnish very considerable aid in illustrating the principles and the history of painting and sculpture.

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## LABORATORY AND APPARATUS.

**The New Chemical and Physical Laboratory** affords superior advantages in the study of Chemistry and Physics. Several rooms have been especially fitted up to render them suitable for studying, by means of experiments, the subjects of Sound, Light, Heat, and Electricity. Most of the apparatus necessary for experimenting in these branches is now provided and others will be added as occasion may demand.

The experiment room for Descriptive Chemistry will accommodate ninety-six students in two sections. Each student is provided with a desk, having upon it gas, water, basin with waste, and hood for carrying off foul gases. The most frequently-used chemicals and pieces of apparatus will be supplied to each student, to be retained by him during the term, and kept under lock and key. Other materials will be placed on a table to be used in common by all the students.

In the lecture-room hoods and ventilating flues enable the professor to perform experiments involving the generation of foul odors without vitiating the air of the room. A projecting lantern of the most improved type, made by Newton & Co. (London, Eng.), charts, and specimens are freely used to illustrate the subject under consideration.

In the analytical rooms full opportunity for individual work is afforded, throwing each student upon his own responsibility in order to accomplish the most complete development. Advanced students are encouraged to devise tests and methods of separation other than those mentioned in the text-book, and thus to cultivate the habit of original investigation.

The Physical and Chemical Library has a room on the second floor, and offers facilities for the investigation of subjects in Physics and Chemistry. A number of scientific periodicals are taken, so that the most recent thought and investigation in any line of work is accessible at any time.

The student is expected to pay for materials used and apparatus broken. To meet this a deposit will be made in the beginning of the term with the Registrar, and the unexpected balance will be returned at the close of the term.

The Laboratories will be open from 8.30 A. M. to 5 P. M. daily, except Saturday, Sunday, and legal holidays.

## GENERAL COLLEGE ORDERS.

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### ATTENDANCE.

Only under exceptional circumstances will excuses be granted to leave College during term time. In such cases the examinations on the studies gone over by the class, during a student's absence, will be specially searching, and a high degree of attainment will be exacted. One who is absent during an entire term must almost necessarily lose his standing in his class. The work of the term begins on the day of opening, and recitations are expected at the first hour appointed for the meeting of the classes. The work continues uninterruptedly, with the exception of holidays marked in the Calendar, until the last day of the term.

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### STANDING.

Each instructor records, in numbers ranging from 0 to 10, the character of the recitations of every student reciting to him, and notes also any delinquency in conduct and attendance. The weekly summary of these markings is recorded in permanent books, and constitutes the basis for determining the standing of the student during his connection with the Institution. Unexcused absences from recitations are counted as zeroes in making up the weekly averages. At the close of each term an average of these marks is made out, and a report of the scholarship, attendance, and conduct of each student is transmitted to his parent or guardian by the President. No student is advanced from one class to another whose average in any study is less than 7.

Conditioned students are not recommended to the Board of Trustees for promotion, and their names in the Annual Catalogue appear with those of the class to which the study in question belongs. Students conditioned on entrance must discharge such conditions within the first year thereafter.

Appointments in the Graduating Class are made according to the aggregate standing of each member during his entire course. But in assigning these parts, the Faculty takes into account the deportment of the student, as well as marks for recitations. The minimum average for an Oration of the First Class is fixed at 9, and for an Oration of the Second Class at 8.

Students who attain an average of 9.4 or more for their entire course are graduated *summa cum laude*; students who attain an average of 9.2 or more are graduated *magna cum laude*; those who attain an average of 9 or more are graduated *cum laude*.

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### EXAMINATIONS.

The dates of the examinations are given in the Calendar. In case a student fails to be present at the examination of his class, for any justifiable reason, his examination will be held at such time as the Faculty may appoint.



## PUBLIC WORSHIP.

The College duties of each day are opened with religious services in Bucknell Hall, which all the students are required to attend.

Attendance upon public worship in some church in town on Sunday morning is required. Students must attend the religious services held on Thanksgiving Day.

On the Day of Prayer for Colleges, religious services are held in the forenoon, when a sermon is preached by the President, or by some one at his request. All the students are required to attend. In the afternoon and evening services are held in Bucknell Hall, attendance upon which is urged, though not required.

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## VOLUNTARY SOCIETIES.

**Euepia; Theta Alpha.**—These are the two Literary Societies of the College. They have meetings on Friday evening of each week for Orations, Essays, and Debates. Each Society has a convenient Hall, and, by an arrangement of the Faculty, will always have a nearly equal number of members.

**The Zeta Literary Society** is composed of young women admitted to any of the courses in the College, and holds meetings bi-weekly.

**The Young Men's Christian Association** is formed of students from the College. It receives religious periodicals and corresponds with kindred societies. A Hall has been appropriated to the Society, and has been suitably furnished for religious meetings.

**The Students' Publishing Association** is an organization which has in charge the issuing of the *Bucknell Mirror*. This periodical, of some twenty-four or more quarto pages, appears semi-monthly during the collegiate year.

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## GOVERNMENT.

It is assumed that all who enter upon the courses of study in the College do so for the purpose of acquiring an education, not only of the intellect, but also of character. The Laws of the College, enacted by the Board of Trustees, are as few and simple as the proper regulation of a community of young men will permit. These are printed, and a copy is placed in the hands of every student at the beginning of each year. These Laws must be observed, not only in their letter, but in their spirit. The atmosphere of the Institution is not that of arbitrary restraint, but of reasonable conformity to reasonable laws. The College does not wish to place its stamp or bestow its honors upon any one who is not willing to deport himself as a gentleman. Each student is distinctly placed upon his manhood, and if he abuses his privileges, after reasonable caution, he must withdraw from the Institution.

## PRESIDENT'S OFFICE HOURS.

The President of the University is in his office, in the Main College building, every Tuesday from 9.30 A. M. to 12 noon, to confer with students who may desire advice or assistance. Students are encouraged to communicate frankly with the President upon any subject in which he may be of help to them.

## OFFICE HOURS FOR THE FRESHMAN CLASS.

In addition to the office hours for the students in all departments of the University, special office hours for the members of the Freshman Class are held by Professor Hulley, in the President's office, on each Wednesday from 9.15 to 11.15 A. M.

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## HEALTH AND PHYSICAL CULTURE.

### THE TUSTIN GYMNASIUM.

WILLARD MAINE BUNNELL, FRANK EARLE HERING, DIRECTORS.

The **Tustin Gymnasium** has been provided for the physical training and development of male students. Young women have opportunity for physical training in the Gymnasium of the Institute. These are now provided with the apparatus usually found in well furnished gymnasiums. The Directors of the Gymnasium examine every student, taking and recording in a book his physical measurements, and prescribe such exercises as may be required for his physical development. Regular exercise in the Gymnasium is required of all students during the winter term.

The **Athletic Association** of the College has been formed to encourage and regulate athletic sports. Considerable liberty is permitted to the Association in carrying out its purpose. The Association is not allowed, however, to arrange match games with other similar bodies without first having secured the consent of the Faculty.

An **Infirmary** has been fitted up for the better care of the sick.

## AIDS AND HONORS.

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### PRIZES.

#### THE FRESHMAN DECLAMATION PRIZE.

A prize is awarded to the member of the Freshman Class who shall excel in declamation at the Annual Contest of the Freshman Class.

The prize was awarded in 1895 to Charles Arthur Lindemann.

#### THE PRIZE OF THE CLASS OF '71.

This prize, established by the Class of 1871, is awarded to the student of the Freshman Class who shall prove himself best prepared for College in the two branches, Latin and Mathematics, and who shall have received his preparatory training in Bucknell Academy.

The prize for 1895 was awarded to Charles Arthur Lindemann.

#### THE FRESHMAN ESSAY PRIZE.

An annual prize is given to that member of the Freshman Class who shall on or before the first day of June in each year, present the best essay upon a topic to be selected by the Professor of Rhetoric. The Committee of Award will consist of the Professor of Rhetoric and two others, to be designated by the Faculty.

The topic of the current year is "The Character of Sir Roger in the De Coverley Papers."

The prize for 1895 was awarded to Charles Arthur Lindemann.

#### THE SOPHOMORE DECLAMATION PRIZE.

A prize is awarded to the member of the Sophomore Class who shall excel in declamation at the Annual Contest of the Sophomore Class.

The prize for 1895 was awarded to Ferdinand Fields Nelson.

#### THE SOPHOMORE ESSAY PRIZE.

A prize is awarded to that member of the Sophomore Class who shall write the best English composition on an assigned subject. The Committee of Award consists of the Professor of Rhetoric and two others chosen by him.

The subject chosen for the year 1896 is "Characteristics of Wordsworth's Poetry." The compositions are limited to 2,000 words, and must be presented to the Committee on or before the first day of June.

The prize was awarded in 1895 to Maud Elizabeth Hanna.

#### THE REGISTRAR'S PRIZE.

The Registrar of the University offers a prize to that member of the Junior Class who shall pronounce the best oration at the Junior Exhibition in Oratory.

The Junior oratorical prize was awarded in 1895 to Mary Moore Wolfe.



**JUNIOR DEBATE PRIZE.**

Prizes will be awarded to the two members of the Junior Class who evince superiority in debate at the Junior prize contest.

The first prize was awarded in 1895 to Samuel Rawcliffe Wood; the second to Daniel Elwood Lewis.

**THE HOLLOPETER PRIZE.**

William C. Hollopeter, M. D., Class of 1874, has established an annual prize for excellence in Chemistry, to be awarded to that student at graduation who shall have done the best work in Chemistry, regard being had both to the amount and quality of the work.

This prize was awarded, in 1895, to Herbert Spencer Schuyler.

**THE HERBERT TUSTIN PRIZES.**

In memory of his deceased son, the late Professor F. W. Tustin, Ph. D., of the Class of 1856, paid to the Trustees of the University the sum of five hundred dollars, "as the foundation of the HERBERT TUSTIN PRIZE FUND, the interest of which is to be forever paid annually as two prizes, in the proportion of fifteen dollars for the First Prize, and of ten dollars for the Second Prize, to the two students of the Senior Class who shall have attained the highest and the second highest standing in Psychology and Ethics (under such regulations for the pursuit of these studies as the Faculty of the College shall prescribe from time to time), and whose conduct for the last two years of their course in College shall have been without exception."

The first prize was awarded in 1895 to L. G. C. Riemer, and the second to Herbert Spencer Schuyler.

**THE CHAPLAIN J. J. KANE PRIZE.**

The Rev. James J. Kane, Chaplain in the United States Navy, and a graduate of the Theological Department of this University, of the Class of 1867, has established a Prize which is to be given annually to that member of the graduating class who delivers the best oration on Commencement Day.

The prize was awarded in 1895 to William Boyd Shedd.

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**THE CHARLES MILLER FELLOWSHIP.**

A fellowship in Chicago University, open only to graduates of Bucknell University, has been founded by Hon. Charles Miller, of Franklin, Pa.

The Bucknell University Fellow for 1895-96 is Ephraim M. Heim, A. B., Class of 1893.

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**SCHOLARSHIPS.****1. THE BUCKNELL SCHOLARSHIPS.**

The William Bucknell Scholarships, twenty in number and of \$1,000 each, were established for the purpose of aiding worthy young men in securing an education which will increase their usefulness in the world. The

income of these scholarships is to be paid annually to twenty young men, in accordance with the rules which will be made known upon application to the Committee of Examination, consisting of the President of the University, H. S. Hopper, Esq., and Professor Rockwood.

## II. SCHOLARSHIPS FOR MINISTERS' CHILDREN.

Scholarships upon the general foundation have been established for the children of ministers of the Gospel, of all denominations, in active service.

## III. THE LIVINGSTON SCHOLARSHIPS.

Established from a legacy of M. B. Livingston, twenty-two in number, are available for students for the Ministry.

## IV. THE LONGAN SCHOLARSHIP.

The Longan Scholarship, established from a legacy of O. W. Longan, Esq., is available for a student for the Ministry from Lycoming Co., Pa.

## V. THE EBEN C. JAYNE SCHOLARSHIPS.

Two scholarships have been established by Eben C. Jayne, Esq., of Philadelphia, for the benefit of young women in the College, the award to depend upon the standing and character of the students receiving them.

## VI. ANNUAL SCHOLARSHIPS.

A number of persons have established annual scholarships for the aid of young men or women attending College. Information concerning ministerial and annual scholarships can be obtained from the President of the University.

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## HONOR STUDIES.

In order to promote special scholarship in the several departments of study the following provision has been made :

1. Any student who has attained an average of 9 in the studies of the previous term may take special work in any department of the College, under the direction of the professor of that department.

2. Such work must be assigned by the Professor, and the method of study prescribed by him.

3. If the student shall attain an aggregate average of 9 in all the studies of the current term, and pass a satisfactory examination in the voluntary study before a committee appointed by the Faculty, the work shall be credited to him in the Annual Catalogue of the College.

4. But one such study shall be pursued by any one student during any one term.

5. The Professor under whom the student is working shall have the privilege of requiring a partial examination on the work done at any time during the term, and there may be regular recitations, at the Professor's option.

6. The amount and quality of this extra work shall be taken into account in awarding honors at graduation.

The following Honor Examinations have been sustained during the year ending June 19, 1895:

**With the President:** Leo G. C. Riemer in Hamilton's Metaphysics; Leo G. C. Riemer in Lotze's Psychologie; Ezra Allen, William A. Kaufmann, Herbert S. Schuyler, Bromley Smith, Hervey H. Bower, John W. Davis, Herbert F. Harris, and Samuel R. Wood in "Rise and Constitution of Universities;" William A. Kaufmann, David Philips, and Leo G. C. Riemer in Bowen's Modern Philosophy.

**With Professor Groff:** Ezra Allen, Herbert S. Schuyler, Hervey H. Bower, and James D. Macnab in Botany; Joseph C. Carey, William H. Carey, and Benjamin M. Wagenseller, in Economic Geology; Daniel E. Lewis, Lewis C. Walkinshaw, and Willard M. Bunnell in Plant Histology; Lewis C. Walkinshaw in Comparative Anatomy; Daniel S. Grim and Mary M. Wolfe in Zoölogy.

**With Professor Bartol:** Charles A. Lindemann in Integral Calculus.

**With Professor Rockwood:** Minnie Cotton, in *Cicero de Natura Deorum*; Albert W. Johnson, Amos T. Williams, Maud E. Hanna, Rosa L. Hartley, Edward C. Kunkle, and Romeyn H. Rivenburg, in *Cicero De Officiis*.

**With Professor Owens:** Nelson F. Davis, in Modern Chemical Theories; Barclay Reynolds, Albert W. Stephens, and Lewis C. Walkinshaw, in Organic Chemistry.

**With Professor Perrine:** Minnie Cotton, in Shakespeare; Nelson F. Davis, William A. Kaufmann, Herbert S. Schuyler, Frank M. Simpson, Benjamin M. Wagenseller, Hervey H. Bower, John W. Davis, Herbert F. Harris, Barclay Reynolds, and B. B. Ware, in Milton; Nelson F. Davis, Kate I. McLaughlin, Benjamin M. Wagenseller, Hervey H. Bower, John W. Davis, Herbert F. Harris, Thomas R. Taggart, Mary M. Wolfe, Willard M. Bunnell, and John A. Cutler, in Chaucer; Kate I. McLaughlin, in Economics; and Walter L. Hill, in Rhetoric.

**With Professor Hamblin:** Frank W. Jackson, in Greek Prose Composition; Alexander Douglas, in Phædo, two courses; Maud E. Hanna, Rosa L. Hartley, Edward C. Kunkle, Romeyn H. Rivenburg, Mary E. Chambers, Anna M. Rodgers, and Robert G. Slifer, in Xenophon's Symposium.

**With Dr. Wayland:** Herbert M. Pease, Herbert S. Schuyler, Bromley Smith, Maud E. Hanna, Rosa L. Hartley, Harry T. Sprague, and Joseph R. L. Diggs, in Sociology.

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## EXPENSES.

The Study Rooms are so arranged that two students occupy the same study. The Dormitories are intended to accommodate only one person, so that each student has his own private sleeping room. These are furnished with new spring bedsteads. The student must supply himself with all other furniture. Students are responsible for damage to their rooms, whether it be done when they are present in the room or absent from it.



The College charges amount to \$85 per annum, for those who room in the College building, and \$75 for those who room in the town. The Scholarships are rated at \$50 per annum.

These charges must be paid in advance at the beginning of each term.

No student is entitled to his place in his class until he has made settlement with the Registrar.

A slight additional charge is made for rooms cared for by the Institution.

If a student occupy a study by himself, the charges for room-rent and private fuel will be doubled. The assignments are for one year, and are made the first Monday morning in June, immediately after the devotional exercises in Bucknell Hall. Students from a distance will save inconvenience by applying to the Registrar for a room before the term opens.

Young men in the Collegiate Department, who so desire, can have furnished rooms, with board, in the East Hall of the Academy; young ladies in the same department have their residence in the Institute. For rates apply to the Registrar.

Free scholarships, covering tuition, are also provided in all the departments of the University for children of Ministers of the Gospel, *in actual service*.

In the laboratories students pay for chemicals used and for apparatus broken or damaged. In the Chemical Laboratory this will amount to about \$12 for Analytical and \$3.25 for General Chemistry, depending upon the care of the student.

A small fee is charged also in each of the elective courses in the department of Organic Science, and in City Surveying, for the use of instruments and for material used.

Before entering upon the experimental courses students must deposit with the Registrar security for materials used.

The expenses for Music and Printing for Examinations and Anniversary occasions are paid for by the classes for which such expenses are incurred. Graduation fee and Diploma, \$5.00. Degree of Master of Arts and Diploma, \$5.00.

Many students board in clubs at a cost of from \$2.00 to \$2.50 per week. Excellent boarding can be obtained in private families at \$3.00 or \$4.00 per week, or at the table of the Bucknell Academy at \$3.00 per week. Washing is done at 25 cents per week. No boarding is allowed in the College buildings. It will be a matter of economy to bring some articles of furniture, especially bedding and carpets, from home. The dimensions of the study rooms are 12 by 12 feet; of the dormitories, 12 feet by 6 feet; of the bedsteads, 75 inches by 30 inches.

# FORTY-FIFTH ANNUAL COMMENCEMENT.

Wednesday, June 20, 1895.

## HONORS AT GRADUATION.

### *ORATIONS SUMMA CUM LAUDE.*

EZRA ALLEN,	MINNIE COTTON,
THOMAS CARSON HANNA,	FRANK WATTERSON JACKSON,
HERBERT MOXLEY PEASE,	LEO GUIDO CHARLES RIEMER,
HERBERT SPENCER SCHUYLER,	WILLIAM BOYD SHEDDAN,
	BROMLEY SMITH.

### *ORATIONS MAGNA CUM LAUDE.*

JOSEPH CALDWELL CAREY,	NELSON FITHIAN DAVIS,
WILLIAM ALBERT KAUFFMAN,	ANDREW GREGG LOOMIS,
CORA REIFF PERRY,	FRANK MORTON SIMPSON.

### *ORATIONS CUM LAUDE.*

WILLIAM HENDERSON CAREY,	WILLIAM ANDERSON CRAWFORD,
KATE IRENE McLAUGHLIN,	WILLIAM THEODORE PAULLIN, JR.,
DAVID PHILLIPS,	BENJAMIN MEADE WAGENSELLER.

### *ORATIONS.*

BENJAMIN KANE BRICK,	PETER BODINE CREGAR,
WILLIAM THEOPHILUS HARRIS,	FRANKLIN ISAAC SIGMUND.

## DEGREES CONFERRED PRO MERITO.

### *MASTER OF ARTS.*

MARY L. BARTOL, A. B.,	MARY BELLE HARRIS, A. B.
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### *BACHELOR OF ARTS.*

EZRA ALLEN,	WILLIAM ANDERSON CRAWFORD,
PHILIP JACKSON DICKERSON,	WILLIAM THEOPHILUS HARRIS,
THOMAS CARSON HANNA,	FRANK WATTERSON JACKSON,

WILLIAM ALBERT KAUFFMAN,  
KATE IRENE McLAUGHLIN,  
HERBERT MOXLEY PEASE,  
LEO GUIDO CHARLES RIEMER,  
BROMLEY SMITH,

ANDREW GREGG LOOMIS,  
WILLIAM THEODORE PAULLIN, JR.,  
DAVID PHILLIPS,  
FRANKLIN ISAAC SIGMUND,  
BENJAMIN MEADE WAGENSELLER.

*BACHELOR OF PHILOSOPHY.*

MINNIE COTTON,

WILLIAM BOYD SHEDDAN.

*BACHELOR OF SCIENCE.*

BENJAMIN KANE BRICK,  
WILLIAM HENDERSON CAREY,  
NELSON FITHIAN DAVIS,  
HERBERT SPENCER SCHUYLER,

JOSEPH CALDWELL CAREY,  
PETER BODINE CREGAR,  
CORA REIFF PERRY,  
FRANK MORTON SIMPSON.

*MASTER OF ARTS IN CURSU.*

CHARLES KOONCE, A. B.,  
CHARLES GRANT SHAFFER, A. B.,  
GEO. WASH. WAGENSELLER, A. B.,

LLEWELLYN PHILLIPS, A. B.,  
H. OPHELIA STAUFFT, A. B.,  
ANDREW ROBT. ELMER WYANT, A. B.

HONORARY DEGREES CONFERRED.

*DOCTOR OF DIVINITY.*

REV. HOWARD FETZER KING, A. M., B. D.,  
REV. FRANCIS JOHN PARRY, A. M., B. D.

*MASTER OF ARTS.*

HON. JOHN B. WARFEL,  
REV. THOMAS ALBERT LLOYD.



# THE ACADEMY.

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## INSTRUCTORS AND OTHER OFFICERS.

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JOHN HOWARD HARRIS, PH. D., LL. D.,  
PRESIDENT OF THE UNIVERSITY.

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THOMAS A. EDWARDS, A. M., PRINCIPAL,  
LATIN.

ALBERT BURNS STEWART, A. M.,  
MATHEMATICS.

GEORGE EDWARD FISHER, PH. B.,  
ENGLISH AND SCIENCE.

LLEWELLYN PHILLIPS, A. M.,  
GREEK.

EZRA ALLEN, A. B.,  
PROCTOR.

MRS. ANNIE M. BLACK,  
MATRON.

WILLIAM CHRISTIAN GRETZINGER, PH. B.,  
REGISTRAR OF THE UNIVERSITY.

## STUDENTS.

## THE FOURTH FORM.

## CLASSICAL.

NAME.	RESIDENCE.	ROOM.
EDWARD BELL,	<i>Sabbath Rest.</i>	No. 3, Main Hall
HENRY LEONARD CRAIG,	<i>Philadelphia.</i>	No. 8½, East Wing
ANDREW NEVINGER EVANS,	<i>Montandon.</i>	Mr. W. L. Snyder
EVAN DALE FIELD,	<i>Smithfield.</i>	No. 22, East Hall
CHARLES FREDRICK KULP,	<i>Philadelphia.</i>	No. 20, West Wing
HARRY LEWIS MAIZE,	<i>Lewisburg.</i>	Mrs. Hannah M. Maize
EDWARD DAVID MITCHELL,	<i>Philadelphia.</i>	Mrs. Margaret Anderson
CHARLES JUDD PEARSE,	<i>Payette, Idaho.</i>	No. 10, Main Hall
EDGAR REED,	<i>Lairdsville.</i>	No. 3, West Wing
JOHN SHERMAN,	<i>Philadelphia.</i>	No. 5, Main Hall
AUGUST SHUHART,	<i>Philadelphia.</i>	No. 6, West Wing
HENRY ELMER STABLER,	<i>Warrensville.</i>	No. 12, West Wing
WILLIAM SELL WENCK,	<i>Northumberland.</i>	Mrs. Margaret Anderson

## SCIENTIFIC.

NAME.	RESIDENCE.	ROOM.
BRYANT EVANS BOWER,	<i>Lewisburg.</i>	F. E. Bower, Esq.
THOMAS REESE BOWER,	<i>Lewisburg.</i>	F. E. Bower, Esq.
JOHN WILLIAM COTTRELL,	<i>Union City.</i>	No. 5, West Wing.

NAME.	RESIDENCE.	ROOM.
ARTHUR NICHOLAS DE VORE,	<i>Lewisburg.</i>	Rev. E. A. DeVore
ERNEST EDWARD JOHNSON,	<i>Lewisburg.</i>	Prof. B. R. Johnson
THORNMOORE SHORKLEY,	<i>Lewisburg.</i>	Mr. Elisha Shorkley
JOHN HORNER VINCENT, JR.,	<i>Northumberland.</i>	J. H. Vincent, Esq.

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## THE THIRD FORM.

## CLASSICAL.

NAME.	RESIDENCE.	ROOM.
GEORGE WELLS ALEXANDER,	<i>Philadelphia.</i>	No. 8, Main Hall
CALEB BARRETT AYARS,	<i>Wilmington, Del.</i>	No. 6, Main Hall
MARK L. ANTHONY,	<i>Mt. Top.</i>	No. 11, Main Hall
CARLTON CHAPELL COMFORT,	<i>Bristol.</i>	No. 11, West Wing
WILLIAM DEVITT,	<i>Manayunk.</i>	No. 12, Main Hall
ALFRED ALLYN EARLE,	<i>Lewisburg.</i>	Rev. I. N. Earle
RALPH GEORGE HARTLEY,	<i>Guelph, Ont.</i>	Rev. William Hartley
RUSH HARRISON KRESS,	<i>Centralia.</i>	No. 30, West Wing
RAYMOND GRIFFITH PIERSON,	<i>Philadelphia.</i>	No. 8, Main Hall
HUGO BRUNO CHARLES RIEMER,	<i>Brookston.</i>	No. 17, East Hall
JOSEPH ZERBE ROWE,	<i>Reading.</i>	No. 12, Main Hall
WALTER ELMER RUCH,	<i>Northumberland.</i>	Mrs. Margaret Anderson
EDGAR THOMSON SHIELDS,	<i>Lewisburg.</i>	Mr. William Shields
WILLIAM BRUCE STONER,	<i>Sunbury.</i>	No. 12, East Hall
JOHN STORER STEPHENS,	<i>Lewisburg.</i>	Rev. LeRoy Stephens, D.D.
CHARLES WAGONER WOLFE,	<i>Bangor.</i>	Mr. Abram Mertz



## SCIENTIFIC.

NAME.	RESIDENCE.	ROOM.
THOMAS EVANS, JR.,	<i>Freeland.</i>	No. 13, East Hall
GORDON FORSTER,	<i>Lewisburg.</i>	Mr. William Forster
RAYMOND GREENE,	<i>Lewistown.</i>	No. 12, East Hall
JESSE CORNELIUS HIGGINS,	<i>Lewisburg.</i>	Mr. D. P. Higgins
ROBERT JEROME POWELL,	<i>Ridgway.</i>	No. 22, East Hall
EZRA JAY WAGER,	<i>Hillsgrove.</i>	No. 5, Main Hall
SAMUEL WITTENMYER, JR.,	<i>Middleburgh.</i>	No. 9, East Hall
JOHN ADAM YOUNG,	<i>New Columbia.</i>	Mr. Harry Poeth

## THE SECOND FORM.

NAME.	RESIDENCE.	ROOM.
HAROLD LOOMIS BARNES,	<i>Bayonne, N. J.</i>	No. 18, Main Hall
ORREN REGNALL BARRETT,	<i>Fisher's Ferry.</i>	No. 18, East Hall
FLEMING BOWER,	<i>Lewisburg.</i>	F. E. Bower, Esq.
WILLIAM ARTHUR BOWMAN,	<i>Bridgeport.</i>	No. 3, West Wing
ROBERT NEWTON BRADY,	<i>Union City.</i>	No. 7, Main Hall
FRANK EUGENE BURPEE,	<i>Erie.</i>	No. 4, Main Hall
MALCOLM PURDY DAVIS,	<i>Lewisburg.</i>	Rev. L. C. Davis
CLARENCE GREENE DILL,	<i>Lewisburg.</i>	Mr. R. M. Greene
ADAM MILES DIEFFENDERFER,	<i>Kelly X Roads.</i>	Wolfe Building
WILLIAM MARSHALL GROFF,	<i>Lewisburg.</i>	Dr. George G. Groff
AUGUSTUS NITCHIE HARMON,	<i>Lock Haven.</i>	No. 11, East Hall
RUTHERFORD BURCHER HADLEY,	<i>Scranton.</i>	No. 4, Main Hall

NAME.	RESIDENCE.	ROOM.
JOHN SIDNEY HOFFA,	<i>Washingtonville.</i>	No. 10, Main Hall
JOSEPH H. JEREMIAH,	<i>Scranton.</i>	No. 9, East Hall
EVAN GURNOS JONES,	<i>Scranton.</i>	No. 2, West Wing
WILLIAM NOGEL MARSH,	<i>Lewisburg.</i>	Mrs. N. C. Marsh
HARRY VOWEL MILLER,	<i>Philadelphia.</i>	No. 18, East Hall
JOHN BLACK PACKER,	<i>Sunbury.</i>	No. 10, East Hall
THOMAS B. PARKER,	<i>Philadelphia.</i>	No. 13, East Hall
DAVID ALEXANDER PITTS,	<i>Philadelphia.</i>	No. 20, East Hall
THOMAS ANDREW SHERBONDY,	<i>Philadelphia.</i>	No. 19, East Hall
GEORGE HERBERT STEWART,	<i>Lewisburg.</i>	Prof. A. B. Stewart
JOHN DANIEL THOMAS,	<i>Lansford.</i>	No. 19, East Hall
ELI SLIFER WALLS,	<i>Lewisburg.</i>	Mr. W. C. Walls

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## FIRST FORM.

NAME.	RESIDENCE.	ROOM.
RICHARD MARTIN BELL,	<i>Sabbath Rest.</i>	No. 3, Main Hall
MERLE MOE EDWARDS,	<i>Lewisburg.</i>	Principal Edwards
JOHN CHARLES GROFF,	<i>Lewisburg.</i>	Dr. George G. Groff
REESE HARVEY HARRIS,	<i>Lewisburg.</i>	President Harris
GEORGE HURBURT HYDE,	<i>Ridgway.</i>	No. 14, East Hall
WILLIAM CAMERON PACKER,	<i>Sunbury.</i>	No. 10, East Hall
STEPHEN TREVERTON,	<i>Ivanhoe, Va.</i>	Mr. John Sprague
JOHN GREENFIELD WOOD,	<i>Erie.</i>	No. 16, East Hall

## PURSUING SELECT STUDIES.

NAME.	RESIDENCE.	ROOM.
MAINEARD LESHER BAKER,	<i>Cowan.</i>	No. 7, Main Hall
HARRY CLIFFORD BECK,	<i>Philadelphia.</i>	No. 18, East Hall
HARRY RANSLOE BOONE,	<i>St. Clair.</i>	No. 12, East Hall
GEORGE JAMES DICKINSON,	<i>Brookston.</i>	No. 17, East Hall
CARROLL LEWIS DOUGLASS,	<i>Bradford.</i>	No. 4, West Wing
HARRY ORGAN EISENHAUER,	<i>Kelly X Roads.</i>	Mr. O. C. Eisenhauer
ELBERT HUFF,	<i>Stonington.</i>	No. 22, West Wing
LOUIS MARCUS,	<i>Lewisburg.</i>	Mr. D. Marcus
EMMONS LEDYARD PECK,	<i>Carbondale.</i>	No. 21, East Hall
CARL HENRY SENN,	<i>Williamsport.</i>	No. 11, Main Hall
HARRY COLLINS SIMONS,	<i>Oak Lane, Philadelphia.</i>	No. 20, East Hall
WILLIAM SPENCER SKINNER,	<i>Lewisburg.</i>	Home
HARRY RUHL THORNTON,	<i>Lewisburg.</i>	Dr. T. C. Thornton
BENJAMIN WHITMAN,	<i>Lewisburg.</i>	Mr. F. O. Whitman
JAMES BIEHL ZELLER,	<i>Lewisburg.</i>	Mr. John F. Zeller

## SUMMARY.

The Fourth Form, Classical, . . . . .	13	
Scientific, . . . . .	7	
	<hr/>	20
The Third Form, Classical, . . . . .	16	
Scientific, . . . . .	8	
	<hr/>	24
The Second Form, . . . . .		24
The First Form, . . . . .		8
Unclassified, . . . . .		15
	<hr/>	
Total in Academy, . . . . .		91
In other Departments, . . . . .		337
	<hr/>	
Total in all Departments, . . . . .		428



## COURSES OF STUDY.

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The Academy is designed to fit pupils for College, for Teaching or for Business. It offers two Courses of Study.

I. **The Classical Preparatory Course** extends through four years and is arranged to meet the requirements for admission to College. The study of Latin begins with the Second Form and continues for three years. The study of Greek begins with the Third Form and continues for two years. Notwithstanding the time given to these important branches of study, fully one-half of the time of the entire course is devoted to English, Historical, Mathematical, and Scientific subjects.

II. **The Scientific Preparatory Course** extends through four years and furnishes adequate preparation for either division of the Philosophical Course in College. The First and Second Forms of the Classical and the Scientific Courses are identical. In the Third and Fourth Forms, the student preparing for the Latin Division substitutes Historical and Scientific subjects for the Greek of the Classical Course; while the student preparing for the Greek Division substitutes the Greek of the Third and Fourth Forms for the Latin and includes the Historical and Scientific subjects.

Students may enter the Form which they are prepared to pursue with profit.

Students who are able to accomplish more work in the allotted time than is required by the Classical Course, are encouraged to add the special studies of the Scientific Course. They may also pursue extra honor work in the Classics by reading, under an instructor's direction, Cæsar's Civil War, Cicero's Letters, or Sallust, and the Books IV, V, VI, of the Iliad, or the Hellenica.

Students who are preparing for the English Scientific Course in College can elect the necessary studies from the regular Curricula of the Academy.

Students who do not intend to enter College, but who desire a comprehensive academic training, will find the Scientific Preparatory Course, with Latin, well adapted to prepare them for teaching or for business.

Transient students may elect such studies as they are qualified to pursue from the studies in actual progress in any given term.

## CURRICULA.

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### I. CLASSICAL PREPARATORY COURSE.

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#### FIRST FORM.

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| I. TERM—Arithmetic,<br>English Grammar,<br>History of the United States, | Wentworth's Grammar School,<br>Reed and Kellogg's Higher Lessons,<br>Fiske.  |
| II. TERM—Arithmetic,<br>English Grammar,<br>General History,             | Wentworth's Grammar School,<br>Reed and Kellogg's Higher Lessons,<br>Barnes. |
| III. TERM—Arithmetic,<br>English Language,<br>General History,           | Wentworth's Grammar School,<br>Analysis and Composition,<br>Barnes.          |

#### SECOND FORM.

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|---|--|
| I. TERM—Higher Arithmetic,<br>Latin—Lessons,<br>Rhetoric,                         | Wentworth and Hill,<br>Tuell and Fowler,<br>Hill's Elements.   |
| II. TERM—Book-keeping,<br>Latin—Lessons,<br>Grammar,<br>History of Greece,        | Bryant,<br>Tuell and Fowler,<br>Allen and Greenough,<br>Myers. |
| III. TERM—Physical Geography,<br>Latin,<br>History of Rome,<br>Elementary Botany, | Appleton,<br>Collar's Gate to Cæsar,<br>Myers,<br>Gray.        |

#### THIRD FORM.

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|--|--|
| I. TERM—Natural Philosophy,<br>Cæsar's Commentaries,<br>Greek—Lessons, | Sharpless and Philips,<br>Harper and Tolman,<br>Frost's Primer.                          |
| II. TERM—Algebra,<br>Vergil's Æneid,<br>Greek—Lessons,<br>Grammar,     | Sheldon's Elements,<br>Harper and Miller,<br>Gleason's Gate to the Anabasis,<br>Goodwin. |
| III. TERM—Algebra,<br>Vergil's Æneid,<br>Xenophon's Anabasis,          | Sheldon's Elements,<br>Harper and Miller,<br>Goodwin.                                    |

## FOURTH FORM.

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|---|---|
| I. TERM—Algebra, Quadratics,<br>Latin—Vergil's <i>Æneid</i> ,<br>Prosody,<br>Xenophon's <i>Anabasis</i> ,<br>Greek Prose Composition,         | Sheldon's <i>Elements</i> ,<br>Harper and Miller,<br>Harper and Miller,<br>Goodwin,<br>Harper and Castle. |
| II. TERM—Plane Geometry,<br>Latin—Cicero's <i>Orations</i> ,<br>Prose Composition,<br>Homer's <i>Iliad</i> ,                                  | Wentworth,<br>Allen and Greenough,<br>Daniell,<br>Seymour.  |
| III. TERM—Plane Geometry,<br>Cicero's <i>Orations</i> ,<br>Greek—Homer's <i>Iliad</i> ,<br>Prose Composition,<br>Xenophon's <i>Anabasis</i> , | Wentworth,<br>Allen and Greenough,<br>Seymour,<br>Harper and Castle,<br>Goodwin.                          |

## II. SCIENTIFIC PREPARATORY COURSE.

## FIRST FORM.

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|--|--|
| I. TERM—Arithmetic,<br>English Grammar,<br>History of the United States, | Wentworth's <i>Grammar School</i> ,<br>Reed and Kellogg's <i>Higher Lessons</i> ,<br>Fiske.  |
| II. TERM—Arithmetic,<br>English Grammar,<br>General History,             | Wentworth's <i>Grammar School</i> ,<br>Reed and Kellogg's <i>Higher Lessons</i> .<br>Barnes. |
| III. TERM—Arithmetic,<br>English Language,<br>General History,           | Wentworth's <i>Grammar School</i> ,<br>Analysis and Composition,<br>Barnes.                  |

## SECOND FORM.

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|---|--|
| I. TERM—Higher Arithmetic,<br>Latin—Lessons,<br>Rhetoric,                         | Wentworth and Hill,<br>Tuell and Fowler,<br>Hill's <i>Elements</i> . |
| II. TERM—Book-keeping,<br>Latin—Lessons,<br>Grammar,<br>History of Greece,        | Bryant,<br>Tuell and Fowler,<br>Allen and Greenough,<br>Myers.       |
| III. TERM—Physical Geography,<br>Latin,<br>History of Rome,<br>Elementary Botany, | Appleton,<br>Collar's <i>Gate to Cæsar</i> ,<br>Myers,<br>Gray.      |



**THIRD FORM.**

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|---|---|
| I. TERM—Natural Philosophy,<br>Cæsar's Commentaries,<br>History of England, | Sharpless and Philips,<br>Harper and Tolman,<br>Guest.              |
| II. TERM—Algebra,<br>Vergil's <i>Æneid</i> ,<br>Astronomy,                  | Sheldon's Elements,<br>Harper and Miller,<br>Sharpless and Philips. |
| III. TERM—Algebra,<br>Vergil's <i>Æneid</i> ,<br>Civil Government,          | Sheldon's Elements,<br>Harper and Miller,<br>Macy.                  |

**FOURTH FORM.**

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|---|---|
| 1. TERM—Algebra, Quadratics,<br>Latin—Vergil's <i>Æneid</i> ,<br>Prosody,<br>Physiology,          | Sheldon,<br>Harper and Miller,<br>Harper and Miller,<br>Walker. |
| II. TERM—Plane Geometry,<br>Latin—Cicero's Orations,<br>Prose Composition,<br>English Literature, | Wentworth,<br>Allen and Greenough,<br>Daniell,<br>Pancoast.     |
| III. TERM—Plane Geometry,<br>Cicero's Orations,<br>Geology,                                       | Wentworth.<br>Allen and Greenough,<br>Le Conte.                 |

## METHODS OF INSTRUCTION.

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The Preparatory Curriculum naturally falls into six principal lines of study, viz., English, Latin, Greek, History, Mathematics, and Natural Science. These combine, in due proportion, the cultural, the disciplinary and the practical elements of intermediate education. The two great divisions of modern study, the Classical and the Scientific, are accorded adequate and appropriate preparation. The subjects, facilities and methods of the various departments are explained below.

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### I. THE ENGLISH LANGUAGE.

A thorough grounding in the principles of English Grammar is indispensable to the student's progress in the subsequent language studies. The continuous application of this knowledge in Composition, and the constant comparison with the forms and idioms of the Ancient Languages, prepare the way for the study of elementary Rhetoric, and the appreciative reading of English and American Literature. The aim is the clear, elegant, and forcible use of the mother tongue as the chief instrument of expression.

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### II. THE LATIN LANGUAGE.

The Inductive Method is used in the elementary instruction. The student investigates the formation of the language. The abstract rules of Syntax are learned from the analysis and synthesis of sentences. Careful drill is given in the declensions and conjugations, in the use of the moods and the sequence of tenses, in the ready reading of the Latin text, in sight reading and in accurate translation into idiomatic English. Attention is given to the important personal, historical, and political elements in the writings of Cæsar and Cicero. In Vergil, the student is introduced to the poetry, legend, religion, philosophy, and art of Rome. He is taught to investigate the allegorical, archæological, and mythical allusions of the *Æneid*, and to appreciate it as the mirror of the life of the Empire. Latin prosody is taught first from the text, and then from the grammar.

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### III. THE GREEK LANGUAGE.

The first half year of the Third Form is spent in acquiring sufficient knowledge of forms and inflections to commence the study of Xenophon's *Anabasis*. During the last half year special attention is given to the inflection and syntax

of nouns, pronouns, and adjectives. The reading of Xenophon is continued in the first term of the Fourth Year, and the forms and syntax of verbs made a special study. Homer is then read for one term and a half, and the difference between Homeric and Attic forms is noted. During the last half term Xenophon is reviewed, that the student may refresh his knowledge of Attic Greek and may not find the transition to College needlessly difficult. Almost daily drill is given in turning into Greek sentences based on the text of Xenophon.

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#### IV. HISTORY.

The course in History includes a survey of the History of the United States, England, Greece, and Rome. The aim is not so much to fill the student's mind with a collection of dates and events as to acquaint him with the life, the genius, the institutions, and the achievements of the respective peoples, and their part in the wider history of mankind. Students are encouraged to cultivate the historical imagination; to compare race characteristics, arts, and religions, and to appreciate the noble ideals, the heroic struggles and sacrifices that have imparted imperishable worth to human institutions.

**Civil Government** is taught as a preparation for intelligent citizenship. The origin and growth of our institutions, the functions of the various departments of the National, State, and local governments, the political history of the people, the interpretation and construction of the Constitution, are presented and discussed.

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#### V. MATHEMATICS.

**Arithmetic.**—To students who are fitting themselves for business, a course is given in practical business Arithmetic, involving all the ordinary problems and practices in the business world. To those who are preparing for college or for teaching instruction is given in the theory and science of Arithmetic. Pupils are expected to master the principles and then to formulate their own rules.

**Algebra.**—The course extends through one period daily for one year, and includes a thorough knowledge of the fundamental principles, Factoring, Divisors and Multiples, Fractions, Equations, Involution, Evolution, Theory of Exponents, Radicals, and Quadratic Equations. Daily black-board work serves to apply the principles taught. The student is required both to know the methods of the solution of problems and also to explain the operation to the class.

**Plane Geometry.**—The instruction consists in daily recitations for two terms on the Theorems and Problems given in the text-book, with original demonstrations of the same Propositions by the students from hints and figures given in the class-room. Besides this, considerable attention is given to the solution of original Propositions, and the application of principles thus learned to the solution of numerical problems.



**Book-keeping.**—A practical introduction to the science of accounts is secured in the term devoted to mastering the principles of Double Entry Book-keeping. Careful attention is given to business forms, to the usages of Banks, and to the elements of Commercial Law. The subject may be pursued in its more extended and intricate applications by a second term's work, open to properly qualified students.

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## VI. SCIENCE.

**Physical Geography** lays a foundation for subsequent work in all sciences. It surveys the earth's physiography, climate, atmosphere, fauna, flora, ocean tides and currents, and geological agencies. Special attention is given to the physical features of the United States. The subject is illustrated by drawings, photographs, colored and relief maps, and specimens from the Museum.

**Botany** is taught by text-book, field exercise, plant analysis, and weekly lectures. A brief outline is first obtained of plant structure, physiology, growth, and reproduction. The subject is then reviewed by daily drill in analyzing, recording, classifying, and preserving specimens. The recorded analysis of fifty plants is required. Lectures explaining special forms of vegetable growth, the flora of this country, the cultivation, uses, and history of plants complete the work.

**Physiology.**—Every effort is made to impart clear ideas of the structure, parts, and functions of the human body. Special attention is given to the chemistry of foods, the laws of health, the effects of stimulants and narcotics. Suggestions are constantly made as to poisons and their antidotes, the care of the sick, disinfection and sanitation, and accidents and emergencies. Charts, manikin, and preparations are used in class.

**Natural Philosophy.**—The student is thoroughly grounded in the elements of mechanics and physics. The apparatus of the College Laboratory is available for use. The historical beginnings of each subject, and subsequent development, are sketched in brief lectures. No pains are spared to familiarize the pupil with the laws of these sciences, by instruction, experiment, review, and repeated examination. The truth of principles is proved, except where the demonstration involves the mathematics of the higher course in College.

**Astronomy.**—Descriptive Astronomy discusses the earth's relations to the solar system, the masses, motions, and orbits of each member of it; the causes and consequences of at least five motions of the earth; general boundaries of the constellations of the Zodiac and northern heavens; the accepted theories of comets, meteors, and nebulae. Charts, star maps, globes, and other apparatus are used, and the student is afforded privileges of observation in the College Observatory.

**Geology.**—The student here masters the elements of lithological, structural, dynamic, and historical Geology. Specimens of various rocks and minerals are handled in class; their composition, characteristics, and place in nature are ex-

plained; the structure of the earth in its present form is studied; the history of its evolution, the age and characteristics of its strata, the chief geological features of each continent, and the forces at work, and that have worked to produce change, are considered.

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## VII. ORATORY.

**Class Exercises.**—Members of the Fourth Form prepare and deliver two original orations each term. All other students have regular exercises in Composition and Declamation throughout the year. Public exercises are held in Bucknell Hall on Saturday morning, before the assembled faculties and students of the Institute and the Academy. Visitors are cordially welcomed to these exercises.

In addition to the private rehearsals for the work above indicated, all students receive weekly instruction in Elocution. The course includes careful drill in the Elementary sounds, in Articulation, and in Expression; in Analytical Reading, including the Bible and Hymns; and the study of Shakespeare.

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## VIII. SPECIAL BRANCHES.

**Bible Study.**—The study of the Bible is pursued as a regular weekly recitation throughout the Second, Third, and Fourth Forms, in both courses of study. A scheme of study is arranged at the beginning of each year. It is intended that the successive schemes for the various years of the course will cover the Life of Christ, the Historical portions foreshadowing the Christ, and the History of the Apostolic Church.

**Literature Study.**—The reading and study of the masterpieces of English and American Literature is maintained in the Second, Third, and Fourth Forms, by means of weekly recitations and conferences. The work required is identical with the "Scheme of Uniform Entrance Examinations in English Language and Literature," recently adopted by the "Association of Colleges and Preparatory Schools of the Middle States and Maryland." It comprises (a) careful readings of representative works of certain authors, as literature; (b) thorough study as to "subject-matter, form, and structure" of other selections. Regular examinations will determine the student's proficiency.

**The Study of Music** may be pursued by Academic students under the instruction of Professor E. Aviragnet and his Assistants, of the School of Music.

**Drawing.**—All students of the Academy may receive throughout the year weekly lessons in Free-hand Drawing and Penmanship without extra charge. Special individual instruction in Drawing is afforded at twenty-four dollars per annum.

## IX. HEALTH AND PHYSICAL CULTURE.

The **Tustin Gymnasium** affords opportunity for physical exercise in the winter and during inclement weather at other seasons. The Directors of the Gymnasium give regular class exercises to the students of the Academy. Attendance upon physical training in the Gymnasium is obligatory during the Winter Term.

The **Athletic Association** of the Academy has been formed to encourage and regulate athletic sports. The association is allowed to arrange match games with other similar bodies by first securing the consent of the Principal.

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## PUBLIC EXHIBITIONS.

### THIRD FORM.

The Public Exhibition of the Third Form in Declamation will take place on Saturday evening, April 25, 1896, in Commencement Hall.

### FOURTH FORM.

The closing exercises of the Academy will be the Public Exhibition in Oratory of the Fourth Form, on Tuesday morning, June 23, 1896.



## GENERAL INFORMATION.

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### ADVANTAGES.

To the student seeking preparation for College, the Academy offers unusual inducements. Its proximity to the College secures to him an atmosphere of study, acquaintance with the guides and companions of his future course, and the benefit of numerous literary exercises to be found only in College towns. He has access to the College Library and Reading-Room. The Academy is designed to fit its pupils thoroughly for College, for Business, or for Teaching. It aims to lay broad and solid foundations for all subsequent scholarly culture, and for the successful conduct of every-day affairs.

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### GOVERNMENT.

Students are encouraged to regard self-government as the only true government. It will be the constant endeavor to secure uprightness of character, gentlemanly deportment, and diligent application to work, by kind treatment, and high standards in conduct and study. The Academy cannot knowingly accept or retain incorrigibles.

#### I. ADMINISTRATION.

1. The general control of the Academy is vested in the President of the University.
2. The government of the Academy, subject to such control, rests with the Principal of the Academy.
3. The government of each Hall is vested in the Instructor in charge, who resides in the Hall and enforces regulations for the Hours of Study, Academy Property, Hygienic Precautions, and General Deportment, and such other prudential regulations as may be ordered by the joint concurrence of the President of the University and the Principal of the Academy.
4. Each Instructor will have charge of his class with reference to attendance upon recitations. In case any student is absent twice in any one term, without good excuse, from recitations, or from his room in the evening after the hour of seven, it shall be the duty of the Principal of the Academy to give information of the fact to the parent or guardian of the pupil so offending.

#### II. VIOLATION OF RULES.

1. Any officer of the Institution becoming cognizant of violation of regulations by any pupil shall report the same to the Principal of the Academy, who shall make a record of the fact in a book provided for the purpose. Any second violation by the same pupil shall also be reported to the President of the University; and if, in the judgment of the President of the University, and the

Principal of the Academy the offense be of sufficient gravity, the parent or guardian of the offending pupil shall be notified.

2. Violations of these and other prudential regulations shall be punished by private reprimand, or by reprimand in the presence of the students of the Academy by the Principal, or by reprimand before the University by the President, or by suspension, or by expulsion, according to the gravity or repetition of the offense.

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## BUILDINGS AND ROOMS.

The Academy Buildings are described in detail in the introductory pages of this Catalogue.

**The Main Building** contains, besides its accommodations for other school and boarding purposes, furnished rooms for students. These rooms are designed to accommodate two students each, and are twenty feet by twelve feet, and fourteen feet high. They are subdivided into a study room twelve feet by ten feet, and a dormitory nine feet square. The dormitory contains a double bed with woven wire mattress. Both rooms are provided with all necessary furniture.

**The New East Hall** contains combined study and sleeping rooms, each designed for two students. These rooms are fifteen feet by twelve feet, with high ceilings, and contain two commodious closets and two single wire mattress beds with all necessary furniture.

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## UNFURNISHED ROOMS.

The Academy has a number of unfurnished rooms for the accommodation of students of mature years and of limited means. No attention by servants is given to these rooms, nor are lights supplied. Two students occupy a study room in common. The dormitories are provided with a double-spring bedstead. All other furnishing is to be done by the occupants. While second-hand articles of furniture may be obtained here, it will be to the student's advantage to bring from home bedding and carpets. The dimensions of the study rooms are ten feet by twelve feet; of the dormitory, nine feet by nine feet.

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## ARTICLES REQUIRED.

Each student should be provided with an umbrella, overshoes, table napkins, towels, soap, and other articles usually required for personal comfort. All articles for the laundry should be marked with the owner's name.

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## BOARDING.

All students from a distance will occupy rooms and will board in the Academy, except for reasons jointly satisfactory to the President of the University and the Principal of the Academy.



The Principal and his family, the Instructors and the Matron, live in the building, take their meals with the boarders, and strive in all possible ways to secure the welfare and happiness of the students. The Instructors occupy rooms adjacent to the students' apartments. The appointments of the Dining Room, the character of the table supplies, the household service in general, are designed to furnish the comforts of a first-class boarding-house. So far as may be warranted by the deportment of the students, there will be absent from the home-life of the school all needless uniformity and irksome limitations, which disregard the reasonable individual preferences of pupils.

The Academy gives to furnished rooms daily and complete attention, provides and washes all bedding and bed clothing, and supplies and cares for all lights.

Engagements for board and rooms are expected to continue without change to the end of the school year for which they are made.

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## APPLIANCES.

The Academy is in possession of excellent apparatus for instruction. A select Reference Library, containing an Encyclopedia, Lexicons, Dictionaries, Atlases, and various other helps, is accessible to students at all hours. The Classical Recitation Room is provided with Kiepert's Wall Maps of Ancient Geography, and with Reinhard's Album of Classical Antiquities, mounted. Metric apparatus, Maps and Globes render assistance in other directions.

The apparatus of the College also is accessible to the classes for purposes of experiment and illustration.

The College Library, numbering 16,000 volumes, is available for all students.

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## STUDY ROOM.

In order to insure favorable conditions of study, the Academy maintains a public study room for the use of day-pupils and such boarding pupils as are thereby better accommodated in the preparation of their lessons. This room is under the constant supervision of the Proctor or one of the instructors of the Academy. Except when engaged in recitation, day pupils and such others as are assigned thereto, are required to occupy seats in the study-room during the day study hours, unless excused for good reason. A record of such attendance is kept, and enters into the pupil's standing at the end of the term.

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## HOURS.

The time devoted to study and recitation amounts to nine hours every weekday, except Saturday, when it is only one hour. This time should be sacred to its purpose. Parents of the day pupils are requested to co-operate with the school in securing attention to evening study hours, and to avoid furnishing excuses or granting occasions for absence.



Students from a distance should be in Lewisburg on the day preceding the opening of each term, and no student should leave until the term has closed. Punctuality in attendance is essential to success in school work.

For terms and vacations, see Calendar of the University, page 129.

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## STANDING AND PROMOTIONS.

The weekly averages of marks for recitations are recorded, and also failures in conduct and attendance. The scale for such markings ranges from 10, or perfect, to 0, or inexcusable failure. Unexcused absences count as zero.

Monthly and term examinations are held in the studies thus far completed, and term reports of the average in scholarship, attendance, and conduct of each student are sent to parents or guardians by the Principal.

No student is promoted to the next higher class whose average in any study is less than 7.

Students who complete the Preparatory Courses of Study are admitted to standing in corresponding divisions of the Freshman Class in the College, upon the Principal's certificate, without examination.

All students who complete in a satisfactory manner either the Classical or the Scientific Course of Study, and who have sustained irreproachable characters during their school residence, shall be entitled to a certificate setting forth their proficiency in the branches studied.

Students attaining an average standing of 9 are encouraged to take work additional to the Regular Courses of Study.

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## PRIZES.

### THE HARRY S. HOPPER PRIZE.

Mr. Harry S. Hopper, of Philadelphia, Chairman of the Board of Trustees, offers an annual prize for excellence in Composition.

This prize for 1895 was awarded to Charles W. Harvey.

### THE REV. D. P. LEAS PRIZE.

Rev. David P. Leas, of Philadelphia, Treasurer of Bucknell University, offers an annual prize to that member of the Third Form who shall excel in the Annual Exhibition of the Third Form in Declamation.

This prize in 1895 was awarded to Charles J. Pearse.

### THE WILLIAM E. MARTIN PRIZE.

Professor William E. Martin offers an annual prize to that member of the Fourth Form who shall pronounce the best oration at the Academic Graduating Exhibition.

This prize for 1895 was awarded to Charles W. Harvey.

## LITERARY SOCIETIES.

**Hermenias; Adelpheia.**—These are voluntary organizations of students for mutual improvement in Literary and Oratorical exercises. They have large and convenient halls in the Academy building, where they hold their meetings on Friday evenings.

## RELIGIOUS SERVICES.

The duties of each day are opened with devotional exercises in Bucknell Hall, at which all students are required to be present. Devotional exercises are also held in the Academy every evening, just before the evening study hour. All academic students residing on the University campus are required to attend these exercises.

Regular attendance upon public worship at some Church in town on Sunday morning is required; also upon services on Thanksgiving Day, and the Day of Prayer for Colleges. Attendance upon Sunday-schools and mid-week prayer-meetings, while voluntary, is strongly urged upon students.

The Academic students maintain a branch of the Young Men's Christian Association, which holds a weekly prayer-meeting on Tuesday evenings.

## EXPENSES.

## EAST HALL.

	<i>Per Annum.</i>
Tuition, Board, Furnished Rooms, Heat, Lights, Care, Washing, and Incidentals, . . . . .	\$230 00

## MAIN HALL.

Tuition Board, Unfurnished Rooms, Heat, Washing, and Inci- dentals, . . . . .	185 00
Tuition, and Incidentals to Day Pupils, . . . . .	55 00

All charges are payable to the Registrar of the University in advance, at the beginning of each term, or by the 15th of September, January, and April.

No student is entitled to his place in his class until he has made settlement for the term bills.

An extra charge will be made for washing more than 12 pieces per week.

Free scholarships, covering tuition, are provided in all the Departments of the University for the children of Ministers of the Gospel *in actual service*.

The expenses for Music and Printing for Exhibitions and Anniversary occasions are paid by the classes for which such expenses are incurred.

**For information respecting the Academy, address the President of the University, John H. Harris, Ph. D., LL.D., or the Principal, Thomas A. Edwards, A. M.**

# THE INSTITUTE.

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## INSTRUCTORS AND OTHER OFFICERS.

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JOHN HOWARD HARRIS, PH. D., LL. D.,

PRESIDENT OF THE UNIVERSITY, AND INSTRUCTOR IN PSYCHOLOGY AND ETHICS.

MRS. KATHERINE B. LARISON, A. M., PRINCIPAL,

AND INSTRUCTOR IN LITERATURE.

ELYSEE AVIRAGNET, A. M., MUS. DOC.,

VOCAL AND INSTRUMENTAL MUSIC AND THE ROMANCE LANGUAGES.

CANDACE WOOD,

DRAWING AND PAINTING.

HARRIET CLARE ARMITAGE,

ENGLISH, ELOCUTION, AND GYMNASTICS.

JULIET AIKEN,

INSTRUMENTAL MUSIC.

ELIZABETH COLLINS EDDELMAN, SC. B.,

LATIN AND GERMAN.

MINNIE GOULD,

VOCAL MUSIC.

IONA MORGAN,

ASSISTANT IN MUSIC.

ELIZA BELL, PH. B.,

HISTORY AND ENGLISH.

JESSIE JUNE WHEELER, A. B.,

MATHEMATICS.

ALBERT BURNS STEWART, A. M.,

MATHEMATICS.

GEORGE ELMER FISHER, PH. B.,

SCIENCE.

LLEWELLYN PHILLIPS, A. M.,

GREEK.



## BUCKNELL UNIVERSITY.

WILLIAM CHRISTIAN GRETZINGER, PH. B.,  
REGISTRAR OF THE UNIVERSITY.

CHARLES R. CASE,  
CARE OF INSTITUTE GROUNDS AND BUILDINGS.

MRS. CHARLES R. CASE,  
MATRON.

## DIRECTORY OF THE ALUMNÆ.

### OFFICERS OF THE ALUMNÆ.

*President*, MRS. WEBER L. GERHART.  
*Vice-President*, MRS. WM. C. GRETZINGER.  
*Recording Secretary*, MISS ANNIE VAN GUNDY.  
*Corresponding Secretary*, MRS. W. E. MARTIN, Lewisburg, Pa.  
*Treasurer*, MRS. D. B. MILLER.

*Board of Managers*,

THE OFFICERS OF THE ASSOCIATION, AND MRS. KATHERINE B. LARISON AND  
MRS. ELIAS SHORKLEY.

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*Secretary*, MISS ANNIE EVANS.  
*Treasurer*, MISS FLORENCE A. VAN DYKE.  
*Correspondent with Philadelphia Alumnæ Club*, MRS. WM. C. GRETZINGER.

### OFFICERS OF THE PHILADELPHIA ALUMNÆ CLUB.

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*Vice-President*, MRS. F. W. TUSTIN.  
*Secretary*, MISS NELLIE CONARD, 748 N. Fortieth St., Philadelphia, Pa.  
*Treasurer*, MRS. AMOS WAKELIN.

The Principal of the Institute will esteem it a favor if any graduate who changes her residence will give notice of her new address. She will also be grateful for any information that will assist in making the directory of the graduates complete.

## GRADUATING CLASS.

## CLASS OF '95.

NAME.	RESIDENCE.	ROOM.
FRANCES MOORE BAKER,	<i>Lewisburg.</i>	J. T. Baker, Esq.
MARY HOWARD BAKER,	<i>Lewisburg.</i>	J. T. Baker, Esq.
ELIZABETH ESTELLE BRUBAKER,	<i>Mifflinburg.</i>	Institute
JENNIE DAVIS,	<i>Camden, N. J.</i>	Institute
IRENE CARRIE ELLIS,	<i>Jersey Shore.</i>	Rev. J. R. Merriman
LAURA FAGUE,	<i>Hughesville.</i>	Institute
BESSIE VIOLA FREAS,	<i>Scranton.</i>	Institute
AUGUSTA JOSEPHINE HANNA,	<i>Lock Haven.</i>	Institute
EMMA BEULAH HAYES,	<i>Lewisburg.</i>	Hon. Alfred Hayes
STELLA REBECCA HOUGHTON,	<i>Lewisburg.</i>	Mr. J. W. Houghton
MARY MATLACK,	<i>Lewisburg.</i>	Mrs. Emma J. Matlack
EDITH ELIZABETH SCHAFFER,	<i>Derry Church.</i>	Institute
GRACE SLIFER,	<i>Lewisburg.</i>	Mrs. C. V. Slifer
ALICE SNOWDEN,	<i>Hughesville.</i>	Institute
FLORENCE VIRGINIA STONER,	<i>Sunbury.</i>	Institute
MARY ALICE THORNTON,	<i>Lewisburg.</i>	Dr. T. C. Thornton
MARY ELIZABETH WILSON,	<i>Lewisburg.</i>	Mr. Thomas Wilson

## NAMES OF STUDENTS.

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### GRADUATE STUDENTS.

NAME.	RESIDENCE.	ROOM.
EMMA BEULAH HAYES,	<i>Lewisburg,</i>	Hon. Alfred Hayes
MARY ALICE THORNTON,	<i>Lewisburg.</i>	Dr. T. C. Thornton

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### THE SENIOR CLASS.

NAME.	RESIDENCE.	ROOM.
BELLE BARTOL,	<i>Lewisburg.</i>	Prof. Wm. C. Bartol
MIRIAM ADLAM BUCHER,	<i>Lewisburg.</i>	Hon. J. C. Bucher
FANNIE MARGARET CASE,	<i>Lewisburg.</i>	Institute
GERTRUDE ELECTA CHURCH,	<i>Union City.</i>	Institute
ESTHER MCKINSTRY GREENE,	<i>Lewistown.</i>	Institute
GERTRUDE ELEANOR KASE,	<i>Danville.</i>	Institute
EMMA ELIZABETH KUNKLE,	<i>Newberry.</i>	Institute
RACHEL JANE NOLL,	<i>Lewisburg.</i>	Mr. Martin Noll
MARGARET ISABELLE NORTON,	<i>Lewisburg.</i>	Mr. Thos. G. Norton
ELIZABETH JOSEPHINE NOYES,	<i>Westport.</i>	Institute
MARGARET OLIVIA ROSS,	<i>Mifflinburg.</i>	Institute
CLARISSA FISHER RUSSELL,	<i>Lewisburg.</i>	Mr. T. Frank Russell
EMMA DIRUF SEILER,	<i>Lewisburg.</i>	Mrs. Carl Seiler
BERTHA CELESTINE WATKINS,	<i>Scranton.</i>	Institute
MARY OLIVE WILLIAMSON,	<i>Salladasburg.</i>	Institute



## THE FOURTH YEAR CLASS.

NAME.	RESIDENCE.	ROOM.
MABEL EFFIE BATTEN,		Institute
ELBINA LAVINIA BENDER,	<i>Auburn, N. J.</i>	Mr. George J. Bender
SARAH MARTHA BLACK,	<i>Lewisburg.</i>	Mrs. Annie M. Black
RUTH NORA DAVIS,	<i>Lewisburg.</i>	Rev. L. C. Davis
ANNA CURZON JUDD,	<i>Lewisburg.</i>	Rev. J. T. Judd
MARY ANNA KLINE,	<i>Winfield.</i>	Mr. Geo. M. Kline
EMMA JOSEPHINE LAWSHE,	<i>Lewisburg.</i>	Mr. Robt. A. Lawshe
EMMA MADDEN,	<i>Saltillo.</i>	Institute
ELIZA JOHNSTON MARTIN,	<i>Lewisburg.</i>	Prof. W. E. Martin
VIOLA HARRIET PENSYL,	<i>Elysburg.</i>	Institute
EMMA CLARE PROBASCO,	<i>Bridgeton, N. J.</i>	Institute
MARGARET M. RAIKE,	<i>Doylestown.</i>	Institute
GERTRUDE WILBURN ROOS,	<i>Lewisburg.</i>	Charles Roos
LULA EUDORA SANDERS,	<i>Milton.</i>	Mr. S. H. Sanders
EDNA SCHUYLER SHIRES,	<i>Limestoneville.</i>	Institute
SUSAN RODENBAUGH SLIFER,	<i>Lewisburg.</i>	Mr. G. M. Slifer
JESSIE THEKLA STEINER,	<i>Lewisburg.</i>	Mr. F. Steiner
MABEL WELLS,	<i>Wilcox.</i>	Institute

## THE THIRD YEAR CLASS.

NAME.	RESIDENCE.	ROOM.
MINETTA MAY ANDERSON,	<i>Lewisburg.</i>	Mrs. Margaret Anderson
LAURA LOUISE ANGLE,	<i>Strafford.</i>	Institute
CATHERINE RUTH BOWER,	<i>Lewisburg.</i>	F. E. Bower, Esq.
ALICE HELEN FOCHT,	<i>Lewisburg.</i>	Mrs. Susan B. Focht
MARIA MAUD GODDARD,	<i>Philadelphia.</i>	Institute
LYDIA ANN WATTS HACKENBURG,	<i>Northumberland.</i>	Mr. D. S. Hackenburg

NAME.	RESIDENCE.	ROOM.
EDITH AGNES HARTLEY,	<i>Lewisburg.</i>	Mrs. Wm. Clingan
EUDORA BLAIR HASSENPLUG,	<i>Lewisburg.</i>	Mr. C. H. Hassenplug
NELLE EVA HOWER,	<i>Lewisburg.</i>	Mr. Jacob Hower
KATHERINE MOTT JOHNSON,	<i>Lewisburg.</i>	Prof. B. R. Johnson
LOUISE WEIMER LAWSHE,	<i>Lewisburg.</i>	Mr. R. A. Lawshe
GRACE CELESTA MOSES,	<i>Lewisburg.</i>	Rev. William Moses
HANNAH VIRGINIA NOYES,	<i>Westport.</i>	Institute
EDITH LEE PHILLIPS,	<i>Plymouth.</i>	Institute
MARGARET MALVINA WAGNER,	<i>Lewisburg.</i>	Mrs. Emma A. Wagner
ELIZA SLIFER WENDLE,	<i>Lewisburg.</i>	Mr. H. M. Wendle

## THE SECOND YEAR CLASS.

NAME.	RESIDENCE.	ROOM.
JESSIE MARGUERITE BIRBECK,	<i>Freeland.</i>	Institute
MARGARET CAMPBELL,	<i>McKeesport.</i>	Institute
MARION A. CRARY,	<i>Sheffield.</i>	Institute
ALICE FLORA DUNHAM,	<i>Sheffield.</i>	Institute
NELLIE LOUISE EARLE,	<i>Lewisburg.</i>	Rev. I. N. Earle
ELIZABETH EVANS,	<i>Freeland.</i>	Institute
ANNABEL HANNA,	<i>Lewisburg.</i>	Rev. Thomas A. T. Hanna
MIRIAM EVANGELINE HANNA,	<i>Lewisburg.</i>	Rev. Thomas A. T. Hanna
MARTHA DUGMORE JONES,	<i>Lost Creek.</i>	Institute
SARAH ETHEL JUDD,	<i>Lewisburg.</i>	Rev. John T. Judd
ELIZABETH KREMER,	<i>Lewisburg.</i>	Mr. J. K. Kremer
ALBERTA PEARL STAPLETON,	<i>Lewisburg.</i>	Rev. A. Stapleton
MARIAN MAY WINGERT,	<i>Lewisburg.</i>	Mr. J. H. Wingert
MARTHA WOLFE,	<i>Lewisburg.</i>	Mrs. Martha E. Wolfe

## THE FIRST YEAR CLASS.

NAME.	RESIDENCE.	ROOM.
MARGARET BEAVER GROFF,	<i>Lewisburg.</i>	Dr. George G. Groff

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## PURSUING SELECT STUDIES.

NAME.	RESIDENCE.	ROOM.
EDITH MILDRED BASTRESS,	<i>Sunbury.</i>	Mr. A. L. Bastress
LAURA LEIDY BEIDLER,	<i>Doylestown.</i>	Institute
KATE STEWART DAVIS,	<i>Milton.</i>	Mrs. K. H. Davis
MABEL FARLEY,	<i>Milton.</i>	Rev. F. H. Farley
CARRIE VIANDA FOLMER,	<i>Shenandoah.</i>	Institute
GERTRUDE GRANT,	<i>Ridgway.</i>	Institute
ANNIE JANE JONES,	<i>Plymouth.</i>	Institute
SUSAN JONES,	<i>Mahanoy Plane.</i>	Institute
MARIE LOUISE LEISER,	<i>Lewisburg.</i>	Andrew A. Leiser, Esq.
MABEL SHIRLEY LOVEGROVE,	<i>Philadelphia.</i>	Institute
LAURA ETHEL MANETT,	<i>Wilcox.</i>	Institute
MARY EDNA MCCLURE,	<i>McKeesport.</i>	Institute
GERTRUDE EDITHA MORGAN,	<i>West Pittston.</i>	Institute
MINNIE CATHERINE MORRIS,	<i>Philadelphia.</i>	Mr. J. W. Rowe
MARGUERITE O'DONNELL,	<i>Texarkana, Ark.</i>	Institute
ADA ELECTA PENNYPACKER,	<i>Norristown.</i>	Institute
ELEANOR POTTER,	<i>Lewisburg.</i>	Mr. S. Potter
JENNIE LOLITA READING,	<i>Williamsport.</i>	Institute



NAME.	RESIDENCE.	ROOM.
ELIZABETH PENNYPACKER ROSSITER,	<i>Pottstown.</i>	Institute
EDNA KATHARINE RUSS,	<i>Holidaysburg.</i>	Institute
ALICE KAUFFMAN SCHAEFFER,	<i>Fleetwood.</i>	Institute
OLIVE ELIZABETH SMITH,	<i>Sunbury.</i>	Mr. E. Penn Smith
ELIZABETH COOK WALKER,	<i>Elkland.</i>	Institute
LENA WEIGAND,	<i>Williamsport.</i>	Mr. J. W. Rowe
MARGARET ELLEN WENSEL,	<i>Lewisburg.</i>	Mr. James Wensel
MARY GRIER YOUNGMAN,	<i>Elkland.</i>	Institute
ALICIA ZIERDEN,	<i>Johnsonburg.</i>	Institute

SUMMARY.

Graduate Students, . . . . .	2
Seniors, . . . . .	15
Fourth Year, . . . . .	18
Third Year, . . . . .	17
Second Year, . . . . .	13
First Year, . . . . .	1
Special, . . . . .	26
<hr/>	
Total, . . . . .	92

## SCHOOL OF MUSIC.

## PIANO.

NAME.	RESIDENCE.
LAURA LEIDY BEIDLER, . . . . .	Doylestown
ELBINA LAVINIA BENDER, . . . . .	Lewisburg
FANNY BILLMEYER, . . . . .	Pottsgrove
FRANCES BLOOM, . . . . .	Sunbury
LENA BURKE, . . . . .	Northumberland
EMMA BROWN COOK, . . . . .	Lewisburg
MARION A. CRARY, . . . . .	Sheffield
ALICE FLORA DUNHAM, . . . . .	Sheffield
ARIE DUNKELBURGER, . . . . .	Lewisburg
MABEL FARLEY, . . . . .	Milton
CARRIE VIANDA FOLMER, . . . . .	Shenandoah
GERTRUDE GRANT, . . . . .	Ridgway
JENNIE HIMMELREICH, . . . . .	Lewisburg
SUSAN JONES, . . . . .	Mahanoy Plane
ANNA JANE JONES, . . . . .	Plymouth
CAROLINE ELIZABETH KELLY, . . . . .	Lewisburg
EMMA JOSEPHINE LAWSHE, . . . . .	Lewisburg
MARIE LOUISE LEISER, . . . . .	Lewisburg
MABEL SHIRLEY LOVEGROVE, . . . . .	Philadelphia
LAURA ETHEL MANETT, . . . . .	Wilcox
LOUIS MARCUS, . . . . .	Lewisburg
MARY EDNA MCCLURE, . . . . .	McKeesport
OLIVER PRESTON MILLER, . . . . .	Lochiel
FANNIE MONTGOMERY, . . . . .	Pottsgrove
GERTRUDE EDITHA MORGAN, . . . . .	West Pittston
ANNIE NOAKER, . . . . .	Milton
MARGUERITE O'DONNELL, . . . . .	Texarkana, Ark.
MRS. WILLARD OLDT, . . . . .	Lewisburg
NETTIE PARKHURST, . . . . .	Kane
ADA ELECTA PENNYPACKER, . . . . .	Norristown
VIOLA HARRIET PENSYL, . . . . .	Elysburg
ELEANOR POTTER, . . . . .	Lewisburg
ANNA MARY ROGERS, . . . . .	Allentown
ELIZABETH PENNYPACKER ROSSITER, . . . . .	Pottstown
EDNA KATHERINE RUSS, . . . . .	Hollidaysburg
LOUISE SEILER, . . . . .	Lewisburg
ALICE KAUFFMAN SCHAEFFER, . . . . .	Fleetwood
ANNA ESTELLE SMITH, . . . . .	Millmont
OLIVIA JENNIE SILVERS, . . . . .	Lambertville, N. J.
JESSIE THEKLA STEINER, . . . . .	Lewisburg
ANNIE STROHECKER, . . . . .	Lewisburg

NAME.	RESIDENCE.
MARGARET ALICE THOMAS, . . . . .	Frostburg, Md.
MARY VORIS, . . . . .	Lewisburg
ALBERT VORSE, . . . . .	Lewisburg
ELIZABETH COOK WALKER, . . . . .	Elkland
LIZZIE WATERS, . . . . .	East Lewisburg
BERTHA CELESTINE WATKINS, . . . . .	Scranton
JOHN GREENFIELD WOOD, . . . . .	Erie

### PIPE ORGAN.

ELBINA LAVINIA BENDER, . . . . .	Lewisburg
MAUD BOWEN, . . . . .	Lewisburg
HARRIET MELISSA CATHERMAN, . . . . .	Swengel
CAROLINE ELIZABETH KELLY, . . . . .	Lewisburg
IDA ELIZABETH LIST, . . . . .	Lewisburg
MARY NETA MOYER, . . . . .	Lewisburg
NETTIE PARKHURST, . . . . .	Kane
ADA ELECTA PENNYPACKER, . . . . .	Norristown
CARLINE SEILER, . . . . .	Lewisburg
OLIVIA JENNIE SILVERS, . . . . .	Lambertville, N. J.
ELIZABETH COOK WALKER, . . . . .	Elkland

### VOICE CULTURE.

EZRA ALLEN, . . . . .	Coudersport
MABEL EFFIE BATTEN, . . . . .	Auburn, N. J.
WILLARD MAINE BUNNELL, . . . . .	Montrose
SAMUEL JOSEPH CLEELAND, . . . . .	Philadelphia
ANNIE DUTTON, . . . . .	Lewisburg
EMMA FAUST, . . . . .	Watsonstown
ESTHER MCKINSTRY GREENE, . . . . .	Lewistown
FRANK HOLLENSHEAD, . . . . .	Philadelphia
EDNA HOWELL, . . . . .	Northumberland
SUSAN JONES, . . . . .	Mahanoy Plane
EMMA ELIZABETH KUNKLE, . . . . .	Newberry
CHARLES FREDERIC KULP, . . . . .	Philadelphia
MABEL SHIRLEY LOVEGROVE, . . . . .	Philadelphia
LAURA ETHEL MANETT, . . . . .	Wilcox
CHARLES PAUL MEEKER, . . . . .	Nicetown
GERTRUDE EDITHA MORGAN, . . . . .	West Pittston
ANNIE NOAKER, . . . . .	Milton
MARGUERITE O'DONNELL, . . . . .	Texarkana, Ark.
ELEANOR POTTER, . . . . .	Lewisburg
CLARISSA FISHER RUSSELL, . . . . .	Lewisburg
HENRY E. STABLER, . . . . .	Warrensville
ANNIE STROHECKER, . . . . .	Lewisburg
MARY VORIS, . . . . .	Lewisburg
JULIA WIEDENSAUL, . . . . .	Lewisburg



## HARMONY.

NAME.	RESIDENCE.
LAURA LEIDY BIEDLER, . . . . .	Doylestown
FRANCES BLOOM, . . . . .	Sunbury
MAUD BOWEN, . . . . .	Lewisburg
CARRIE VIANDA FOLMER, . . . . .	Shenandoah
SUSAN JONES, . . . . .	Mahanoy Plane
ANNIE JANE JONES, . . . . .	Plymouth
CAROLINE ELIZABETH KELLY, . . . . .	Lewisburg
LAURA ETHEL MANETT, . . . . .	Wilcox
OLIVER PRESTON MILLER, . . . . .	Lochiel
GERTRUDE EDITHA MORGAN, . . . . .	West Pittston
MRS. C. WILLARD OLDT, . . . . .	Lewisburg
NETTIE PARKHURST, . . . . .	Kane
ADA ELECTA PENNYPACKER, . . . . .	Norristown
ELEANOR POTTER, . . . . .	Lewisburg
ELIZABETH PENNYPACKER ROSSITER, . . . . .	Pottstown
ALICE KAUFFMAN SCHAEFFER, . . . . .	Fleetwood
OLIVIA JENNIE SILVERS, . . . . .	Lambertville, N. J.
JESSIE THEKLA STEINER, . . . . .	Lewisburg
ELIZABETH COOK WALKER, . . . . .	Elkland
LIZZIE WATERS, . . . . .	East Lewisburg

## VIOLIN.

WILLIAM BARTOL, . . . . .	Lewisburg
LENA BURKE, . . . . .	Northumberland
ARTHUR MARTIN DEVAL, . . . . .	Wharton
SPENCER HARRIS, . . . . .	Lewisburg
SARAH ETHEL JUDD, . . . . .	Lewisburg
LOUISE WEIMER LAWSHE, . . . . .	Lewisburg
LAURA ETHEL MANETT, . . . . .	Wilcox
OLIVER PRESTON MILLER, . . . . .	Lochiel
EDWIN L. NESBIT, . . . . .	Lewisburg
ANNIE NOAKER, . . . . .	Milton
ELEANOR POTTER, . . . . .	Lewisburg
ALICE KAUFFMAN SCHAEFFER, . . . . .	Fleetwood
EDNA SCHUYLER SHIRES, . . . . .	Limestoneville
ALBERT VORSE, . . . . .	Lewisburg
BERTHA CELESTINE WATKINS, . . . . .	Scranton

## VIOLA.

NELLIE TAYLOR, . . . . .	Factoryville
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VIOLONCELLO.

NAME.	RESIDENCE.
JAMES BROWN MARTIN, . . . . .	Lewisburg
RAY WENDELL, . . . . .	Lewisburg

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DOUBLE BASS.

EZRA ALLEN, . . . . .	Coudersport
VIDA SMITH DAVENPORT, . . . . .	Pittston

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GUITAR.

MABEL EFFIE BATTEN, . . . . .	Auburn, N. J.
FANNIE MARGARET CASE, . . . . .	Lewisburg
MARTHA DUGMORE JONES, . . . . .	Lost Creek
OLIVIA JENNIE SILVERS, . . . . .	Lambertville, N. J.

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MANDOLIN.

SUSAN JONES, . . . . .	Mahanoy Plane
LOUISE WEIMER LAWSHE, . . . . .	Lewisburg
FLORA ANN SIEGEL, . . . . .	Watson town
ELIZABETH COOK WALKER, . . . . .	Elkland
BERTHA CELESTINE WATKINS, . . . . .	Scranton

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CORNET.

ELSIE OWENS, . . . . .	Lewisburg
CAROLINE SEILER, . . . . .	Lewisburg

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FLUTE, CLARINET, BAND INSTRUMENTS.

EZRA ALLEN, . . . . .	Coudersport
ENOS COOK BAKER, . . . . .	Ercildoun
BRYANT EVANS BOWER, . . . . .	Lewisburg
ROBERT NEWTON BRADY, . . . . .	Union City
WILLARD MAINE BUNNELL, . . . . .	Montrose
CARLTON CHAPELL COMFORT, . . . . .	Bristol
THOMAS EDWARDS COOPER, . . . . .	Union City
CHARLES GEORGE DAVIS, . . . . .	Sunbury

## NAME.

## RESIDENCE.

ARTHUR MARTIN DEVALI, . . . . .	Wharton
ARTHUR NICHOLAS DE VORE, . . . . .	Lewisburg
LUTHER DONACHY, . . . . .	Lewisburg
HAROLD DONACHY, . . . . .	Lewisburg
FOSTER CALVIN FISHER, . . . . .	Salem
HERBERT FREDERIC HARRIS, . . . . .	Lewisburg
CHARLES SCULL KEENE, . . . . .	Cramer Hill, N. J.
CHARLES ARTHUR LINDEMANN, . . . . .	Philadelphia
JAMES DEMAREST MACNAB, . . . . .	Brooklyn, N. Y.
JAMES BROWN MARTIN, . . . . .	Lewisburg
ERWIN RUSSELL POWELL, . . . . .	Ellwood City
GEORGE STEPHEN TILLEY, . . . . .	Bridgeton, N. J.
RICHARD WILSON WAGNER, . . . . .	Lewisburg
LEWIS CLARK WALKINSHAW, . . . . .	Greensburg
AMOS THOMAS WILLIAMS, . . . . .	Ridgeway

## SUMMARY.

Piano, . . . . .	48
Pipe-Organ, . . . . .	11
Voice Culture, . . . . .	24
Harmony, . . . . .	20
Violin, . . . . .	15
Viola, . . . . .	1
Violoncello, . . . . .	2
Double Bass, . . . . .	2
Guitar . . . . .	4
Mandolin, . . . . .	5
Cornet, . . . . .	2
Flute, Clarinet, and Band Instruments, . . . . .	23
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Total, . . . . .	157
Names repeated, . . . . .	44



CLASS IN ART.

NAME.	RESIDENCE.
NELLIE BASTRESS, . . . . .	Sunbury
MRS. CHARLES R. CASE, . . . . .	Lewisburg
WILHELMINA DARLINGTON, . . . . .	Lewisburg
VIDA SMITH DAVENPORT, . . . . .	West Pittston
MRS. THOMAS A. EDWARDS, . . . . .	Lewisburg
ANNIE EVANS, . . . . .	Lewisburg
ELIZABETH EVANS, . . . . .	Freeland
REESE HARRIS, . . . . .	Lewisburg
KATHERINE HAZLEWOOD, . . . . .	Lewisburg
ALBERT LE VINO, . . . . .	New York City
MARY NOETHING, . . . . .	Selinsgrove
MARGUERITE O'DONNELL, . . . . .	Texarkana, Ark.
MARGARET OLIVIA ROSS, . . . . .	Mifflinburg
ALICE KAUFFMAN SCHAEFFER, . . . . .	Fleetwood
REY STOUGHTON, . . . . .	Lewisburg
GRACE ELIZABETH WALES, . . . . .	Kenoza Lake, N. Y.
MABEL WELLS, . . . . .	Wilcox

PRIVATE LESSONS IN ELOCUTION.

LAURA LOUISE ANGLE, . . . . .	Strafford
MARGARET CAMPBELL, . . . . .	McKeesport
MABEL SHIRLEY LOVEGROVE, . . . . .	Philadelphia
MARY NETA MOYER, . . . . .	Lewisburg

GENERAL SUMMARY.

Institute Courses, . . . . .	92
School of Music, . . . . .	113
School of Art, . . . . .	17
Elocution (Special), . . . . .	4
Names not repeated, . . . . .	43
Total, . . . . .	135
Other Departments, . . . . .	293
Total in all Departments, . . . . .	428

## COURSES OF STUDY.

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The Bucknell Institute offers to young women three courses of study, each extending over five years. Students are admitted to advanced standing, if upon examination, they are found to have satisfactory knowledge of the branches which the class they propose to enter has already completed.

Credentials from Graded Schools are accepted in the studies of the First and Second Years.

Credentials are accepted for the Third, Fourth, and Senior Years from schools whose curricula are equivalent to that of Bucknell Institute; also from accredited private teachers, in studies which are *continued* after entrance.

### I. THE LITERARY COURSE.

The Literary Course embraces in MATHEMATICS, Arithmetic, common and advanced, Algebra and Geometry, plane and solid, and Higher Algebra with Trigonometry and Analytical Geometry as electives; in LATIN, two years *required*, and a third year elective with German or French; in GERMAN and FRENCH, one year each or two of either; and in ITALIAN and SPANISH, an optional course; in SCIENCE, Physical Geography, Botany, Astronomy, Physics, Physiology, Chemistry, and Geology. In these branches the students have the advantages afforded by the College Observatory, Laboratory, and Museum. The course also includes Rhetoric, Composition, Civil Government, Psychology, and Ethics.

Special attention is given to History and Literature, to the former of which six, and to the latter of which three terms are devoted.

### II. THE CLASSICAL COURSE.

The Classical Course embraces, in MATHEMATICS, Arithmetic, Algebra, Geometry, plane and solid, University Algebra, Trigonometry and Analytical Geometry; in LATIN, Grammar and Composition, Cæsar, Vergil, Cicero's Orations, Cicero de Senectute et de Amicitia, Livy, and Paterculus, in all, four years; in GREEK, Grammar and Composition, Xenophon's Anabasis, Homer's Iliad, Lysias' Orations, Herodotus, Homer's Odyssey, and the Greek Testament, in all, three years; in History, General History, and Greek and Roman History.

Students who complete the Classical Course are admitted to the Sophomore Class in College as candidates for the first degree in Arts.

### III. THE LATIN SCIENTIFIC COURSE.

The Latin Scientific Course corresponds to the Classical Course, except that scientific subjects are substituted for the first two years of Greek, and German for the third year of Greek.

Students who complete the Latin Scientific Course are admitted to the Sophomore Class in College as candidates for the first degree in Philosophy.

## SELECT STUDIES.

Students who do not wish to pursue a course of study may elect such subjects in connection with the recitations of the regular classes as they may be qualified to pursue.

## REQUIREMENTS FOR ADMISSION.

The required age for admission to the first-year class or to pursue select studies is twelve years.

The candidate for admission must present testimonials of good moral character.



## CURRICULA.

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### I. THE LITERARY COURSE.

#### FIRST YEAR.

- |   |  |
|---|--|
| I. TERM—Arithmetic,<br>United States History,<br>English Grammar, | Wentworth's Grammar School,<br>Fiske,<br>Reed and Kellogg's Higher Lessons.  |
| II. TERM—Arithmetic,<br>General History,<br>English Grammar,      | Wentworth's Grammar School,<br>Barnes,<br>Reed and Kellogg's Higher Lessons. |
| III. TERM—Arithmetic,<br>General History,<br>English Language,    | Wentworth's Grammar School,<br>Barnes,<br>Analysis and Composition.          |

#### SECOND YEAR.

- |  |  |
|--|--|
| I. TERM—Latin—Lessons,<br>Rhetoric,<br>Higher Arithmetic,                  | Tuell and Fowler,<br>Hill's Elements,<br>Wentworth and Hill.   |
| II. TERM—Latin—Lessons,<br>Grammar,<br>History of Greece,<br>Book-keeping, | Tuell and Fowler,<br>Allen and Greenough,<br>Myers,<br>Bryant. |
| III. TERM—Latin,<br>Physical Geography,<br>Botany,<br>History of Rome,     | Collar's Gate to Cæsar,<br>Appleton,<br>Gray,<br>Myers.        |

#### THIRD YEAR.

- |   |   |
|---|---|
| I. TERM—Cæsar,<br>Natural Philosophy,<br>English History, | Harper and Tolman,<br>Sharpless and Philips,<br>Guest.              |
| II. TERM—Vergil,<br>Algebra,<br>Astronomy,                | Harper and Miller,<br>Sheldon's Elements,<br>Sharpless and Philips. |
| III. TERM—Vergil,<br>Algebra,<br>Civil Government,        | Harper and Miller,<br>Sheldon's Elements,<br>Macy.                  |

**FOURTH YEAR.**

- |   |  |
|---|--|
| I. TERM—Vergil, <i>or</i><br>German,<br>Algebra, Quadratics,<br>Physiology,                             | Harper and Miller,<br>Schmitz,<br>Sheldon,<br>Walker.                                |
| II. TERM—Cicero, <i>and</i><br>Latin Prose Composition, <i>or</i><br>German,<br>Geometry,<br>Chemistry, | Allen and Greenough,<br>Daniell,<br>Schmitz—Ausmeiner Welt,<br>Wentworth,<br>Remsen. |
| III. TERM—Cicero, <i>or</i><br>German, <i>and</i><br>Geometry,<br>Geology,                              | Allen and Greenough,<br>Schmitz—Peter Schlemihl,<br>Wentworth,<br>Le Conte.          |

**SENIOR YEAR.**

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|--|---|
| I. TERM—Psychology,<br>English Literature,<br>English Classics,<br>French, <i>or</i><br>German, <i>or</i><br>Higher Algebra, <i>and</i><br>Geometry, | McCosh,<br>Outlines, and Pancoast,<br><br>German Classics,<br>Wells,<br>Bartol. |
| II. TERM—English Literature,<br>English Classics,<br>French, <i>or</i><br>German, <i>or</i><br>Trigonometry,   | Outlines, and Pancoast,<br><br>German Classics,<br>Bowser.                      |
| III. TERM—Ethics,<br>American Literature,<br>American Classics,<br>French, <i>or</i><br>German, <i>or</i><br>Analytical Geometry,                    | Hopkins,<br>Outlines,<br><br>German Classics,<br>Nichol.                        |

**II. THE CLASSICAL COURSE.****FIRST YEAR.**

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|---|---|
| I. TERM—Arithmetic,<br>United States History,<br>English Grammar, | Wentworth's Grammar School,<br>Fiske,<br>Reed and Kellogg's Higher Lessons. |
| II. TERM—Arithmetic,<br>General History,<br>English Grammar,      | Wentworth's Grammar School,<br>Barnes,<br>Reed and Kellogg.                 |
| III. TERM—Arithmetic,<br>General History,<br>English Language,    | Wentworth's Grammar School,<br>Barnes,<br>Analysis and Composition.         |

## SECOND YEAR.

- |   |  |
|---|--|
| I. TERM—Latin—Lessons,<br>Rhetoric,<br>Higher Arithmetic,                         | Tuell and Fowler,<br>Hill's Elements,<br>Wentworth and Hill.   |
| II. TERM—Latin—Lessons,<br>Grammar,<br>History of Greece,<br>Book-keeping,        | Tuell and Fowler,<br>Allen and Greenough,<br>Myers,<br>Bryant. |
| III. TERM—Latin,<br>Physical Geography,<br>Elementary Botany,<br>History of Rome, | Collar's Gate to Cæsar,<br>Appleton,<br>Gray,<br>Myers.        |

## THIRD YEAR.

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|--|--|
| I. TERM—Natural Philosophy,<br>Cæsar's Commentaries,<br>Greek—Lessons, | Sharpless and Philips,<br>Harper and Tolman,<br>Frost's Primer.                          |
| II. TERM—Algebra,<br>Vergil's Æneid,<br>Greek—Lessons,<br>Grammar,     | Sheldon's Elements,<br>Harper and Miller,<br>Gleason's Gate to the Anabasis,<br>Goodwin. |
| III. TERM—Algebra,<br>Vergil's Æneid,<br>Xenophon's Anabasis,          | Sheldon's Elements,<br>Harper and Miller,<br>Goodwin.                                    |

## FOURTH YEAR.

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|---|---|
| I. TERM—Algebra, Quadratics,<br>Latin—Vergil's Æneid,<br>Prosody,<br>Xenophon's Anabasis,<br>Greek Prose Composition, | Sheldon's Elements,<br>Harper and Miller,<br>Harper and Miller,<br>Goodwin,<br>Harper and Castle. |
| II. TERM—Plane Geometry,<br>Latin—Cicero's Orations,<br>Prose Composition,<br>Homer's Iliad,                          | Wentworth,<br>Allen and Greenough,<br>Daniell,<br>Seymour.  |
| III. TERM—Plane Geometry,<br>Cicero's Orations,<br>Greek—Homer's Iliad,<br>Prose Composition,<br>Xenophon's Anabasis, | Wentworth,<br>Allen and Greenough,<br>Seymour.<br>Harper and Castle,<br>Goodwin.                  |

## SENIOR YEAR.

- |   |   |
|---|---|
| I. TERM— { Geometry,<br>Algebra,<br>Cicero de Senectute,<br>{ Lysias' Orations,<br>Greek Prose Composition, | Practical Ethics,<br>Hygiene,<br>Elocution,<br>English Composition,<br>Lectures on the Essay. |
|---|---|



- II. TERM— { Trigonometry, Derivatives,  
                   { Algebra, Elocution,  
                   Livy, English Composition.  
                   { Herodotus and Thucydides,  
                   { Greek Testament.
- III. TERM—Analytical Geometry, Chemistry,  
                   Paterculus and Pliny, Elocution,  
                   { Odyssey, English Composition.  
                   { Greek Testament.
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### III. THE LATIN SCIENTIFIC COURSE.

#### FIRST YEAR.

- I. TERM—Arithmetic, Wentworth's Grammar School,  
                   United States History, Fiske,  
                   English Grammar, Reed and Kellogg's Higher Lessons.
- II. TERM—Arithmetic, Wentworth's Grammar School,  
                   General History, Barnes,  
                   English Grammar, Reed and Kellogg's Higher Lessons.
- III. TERM—Arithmetic, Wentworth's Grammar School,  
                   General History, Barnes,  
                   English Language, Analysis and Composition.

#### SECOND YEAR.

- I. TERM—Latin Lessons, Tuell and Fowler,  
                   Rhetoric, Hill's Elements,  
                   Higher Arithmetic, Wentworth and Hill.
- II. TERM—Latin—Lessons, Tuell and Fowler,  
                                 Grammar, Allen and Greenough,  
                   History of Greece, Myers,  
                   Book-keeping, Bryant.
- III. TERM—Latin, Collar's Gate to Cæsar,  
                   Physical Geography, Appleton,  
                   Elementary Botany, Gray,  
                   History of Rome, Myers.

#### THIRD YEAR.

- I. TERM—Cæsar's Commentaries, Harper and Tolman,  
                   Natural Philosophy, Sharpless and Philips,  
                   English History, Guest.
- II. TERM—Algebra, Sheldon's Elements,  
                   Vergil's Æneid, Harper and Miller,  
                   Astronomy, Sharpless and Philips.

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|-------------------------|---------------------|
| III. TERM—Algebra,      | Sheldon's Elements, |
| Vergil's <i>Æneid</i> , | Harper and Miller,  |
| Civil Government,       | Macy.               |

## FOURTH YEAR.

- |                               |                         |
|-------------------------------|-------------------------|
| I. TERM—Algebra, Quadratics,  | Sheldon's Elements,     |
| Latin—Vergil's <i>Æneid</i> , | Harper and Miller,      |
| Prosody,                      | Allen and Greenough,    |
| Physiology,                   | Walker.                 |
| II. TERM—Plane Geometry,      | Wentworth,              |
| Latin—Cicero's Orations,      | Allen and Greenough,    |
| Prose Composition,            | Daniell,                |
| English Literature,           | Outlines, and Pancoast. |
| III. TERM—Plane Geometry,     | Wentworth,              |
| Cicero's Orations,            | Allen and Greenough,    |
| Geology,                      | Le Conte.               |

## SENIOR YEAR.

- |                                |                        |
|--------------------------------|------------------------|
| I. TERM— { Geometry,           | Lectures on the Essay, |
| Algebra,                       | Practical Ethics,      |
| Cicero de Senectute,           | Hygiene,               |
| German,                        | Elocution,             |
|                                | English Composition.   |
| II. TERM— { Trigonometry,      | Derivatives,           |
| Algebra,                       | Elocution,             |
| German,                        | English Composition.   |
| Livy,                          |                        |
| III. TERM—Analytical Geometry, | Chemistry,             |
| Paterculus and Pliny,          | Elocution,             |
| German,                        | English Composition.   |

## METHODS OF INSTRUCTION.

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### I. PSYCHOLOGY AND ETHICS.

Psychology is taught by text-book and informal lectures. The relation of Psychology to education is made a special feature of the course.

The aim in the course in Ethics is to make the instruction as practical as possible. Hopkins' work on Ethics is used as a text-book.

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### II. HISTORY.

**History.**—Six terms are devoted to this study. The course embraces General History, the History of the United States, of England, and of Greece, and of Rome. The text-book is supplemented by the topical method. Efforts are made to convince the learner that History is not mere facts in chronological order, but a record of the development of civilization.

**Civil Government** is taught as a preparation for intelligent citizenship. The origin and growth of our institutions, the functions of the various departments of the National, State, and local governments; the political history of the people; the interpretation and construction of the Constitution, are discussed.

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### III. THE ENGLISH LANGUAGE AND LITERATURE.

**English Grammar.**—The aim is to enable the pupils to speak and write the English language with accuracy and force. No text-book is used, the instruction being inductive.

**Rhetoric** is taught as a practical aid to English Composition. Daily exercises in Composition are required.

**English Literature** is taught by topical outlines, the elaboration of which depends upon a critical study of the masterpieces in English Literature, in connection with the lives and times of the writers. The books required for this work are found in the Institute Library.

The chief object in the course is to imbue each student with an ardent desire *to know* and *to value* the best thoughts of the greatest minds; and to clearly comprehend the relation of these thoughts to English Literature and the English race.

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### IV. THE LATIN LANGUAGE.

The method employed with beginners is the Inductive, the text of "*Bellum Helvetium*" being used as presenting a model of Latin. Paradigms of Declension and Conjugation, with the Principles of Syntax, are introduced gradually, after



many illustrations. The same text is made the basis of English sentences to be translated into Latin, readiness in Latin composition and a correct style being thus acquired.

The following courses are offered :

1. Latin Grammar and Lessons, two terms.
2. Cæsar : Gallic War, two terms.
3. Vergil : *Æneid*, three terms.
4. Cicero : Orations, two terms.
5. Cicero *De Senectute* and Livy, one term.
6. Livy : Books XXI and XXII, one term.
7. Paternulus and Pliny, one term.

## V. THE GREEK LANGUAGE.

The first half year of the Third Year is spent in acquiring sufficient knowledge of forms and inflections to commence the study of Xenophon's *Anabasis*. During the last half year, special attention is given to the inflection and syntax of nouns, pronouns, and adjectives. The reading of Xenophon is continued in the first term of the Fourth Year, and the forms and syntax of verbs made a special study. Homer is then read for one term and a half, and the difference between Homeric and Attic forms is noted. During the last half term Xenophon is reviewed, that the student may refresh her knowledge of Attic Greek, and may not find her transition to College needlessly difficult. Almost daily drill is given in turning into Greek, sentences based on the text of Xenophon.

The following courses in Greek are offered to students in the Classical Course :

1. Greek Lessons, two terms.
2. Xenophon : *Anabasis*, two terms.
3. Homer : *Iliad*, two terms.
4. Lysias : Orations, one term.
5. Herodotus : Selections, one term.
6. Homer : *Odyssey*, one term.
7. Greek New Testament.

## VI. MODERN LANGUAGES.

**1. French, Italian, and Spanish.**—The modern languages are taught by comparing them with the mother tongue of the pupil, if there be any relation between them. If there is none, they are compared with the Latin and Greek languages. In French, rules are taught by which the words that are not exactly the same in the two languages are easily made into French.

French Syntax is taught by examples and illustrations from readings. The grammar is taught from the language, and not the language from the grammar. Dictation exercises are given from Whitney's *Practical French*.

As far as practicable French only is spoken in the class-room. Extracts are read from the best French Literature. Conversations are held in French on the readings, stories are related, and compositions prepared in French by the pupil.

The aim is to teach the Modern Languages so that they can be spoken correctly.

The same method is used in teaching Spanish and Italian.

**2. German.**—In the study of German, the aim is to acquire a sufficient knowledge of the grammar and such a vocabulary as will conduce to facility in reading. As little English as practicable is used in the class-room, the rules, after frequent illustrations, being learned in the German Language. The committing to memory of poems, object lessons, and conversations on the text used, constitute the work of the first year; the reading of German classics and German Compositions are included in the second year's course.

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## VII. MATHEMATICS.

**Arithmetic.**—The subject is taught primarily for the purpose of making practical arithmeticians. The mind of the pupil is kept free from set rules, formulæ, and mechanical processes, and independent thought and logical analyses are constantly required.

**Algebra.**—Three terms are given to this subject. There is thorough drill in the fundamental operations, and the idea that these are simply the application of arithmetical processes to symbols of general value, is kept constantly in mind. The course includes Quadratic Equations, Theory of Exponents, Variation, and Series.

**Geometry.**—The course includes Plane and Solid Geometry. Besides the demonstrations of theorems given in the text-book, original demonstrations and the solution of problems are required.

**Higher Algebra.**—Some time is given to the graphical representation of the relations of quantities. The topics discussed are: Progressions, Theory of Limits, Differentiation, Development of Functions into Series, Convergency and Summation of Series, Logarithms, Compound Interest and Annuities, Permutations and Combinations, Probability, Continued Fractions and the Theory of Equations. Differentiation is introduced as a means to clear and concise proofs of the Binomial Theorem, Logarithmic Series and Exponential Series.

**Trigonometry.**—The Course includes Plane and Spherical Trigonometry. It is as extensive as that in our best schools, but does not include those discussions and investigations which are important for specialists only. Time is given to the numerical illustration of principles, for the purpose of making sure that the meaning and use of formulæ, demonstrated and learned, are thoroughly understood.

**Analytical Geometry.**—The student is taught the elementary properties of the right line and the conic sections. There is, in addition, a brief discussion of the general equation of the second degree, some important higher plane curves, and loci in space. The course is intended to give a clear conception of the method of Cartesian Analysis, rather than an extensive knowledge of its results.



## VIII. SCIENCE.

**Natural Philosophy.**—The student is thoroughly grounded in the elements of mechanics and physics. The historical beginnings of each subject, and subsequent developments, are sketched in brief lectures. No pains are spared to familiarize the pupil with the laws of these sciences, by instruction, experiment, review, and repeated examination. The truth of principles is proved, except where the demonstration involves the higher mathematics. The apparatus of the college is available for class use.

**Astronomy.**—Descriptive Astronomy discusses the earth's relation to the solar system, the masses, motions, and orbits of each member; the causes and consequences of at least five motions of the earth; general boundaries of the constellations of the Zodiac and Northern heavens; the accepted theories of comets, meteors, and nebulae. Charts, star maps, globes, and other apparatus are used, and the student is afforded privileges of observations in the College Observatory.

**Physical Geography** lays a broad foundation for subsequent work in all sciences. It surveys the earth's physiography, climate, atmosphere, fauna, flora, ocean tides and currents, and geological agencies. Special attention is given to the physical features of the United States. Drawings, photographs, colored and relief maps, and specimens from the Museum, aid to make the subject clear.

**Geology.**—The student is required to master the elements of lithographical, structural, dynamic, and historical Geology. Specimens of various rocks and minerals are handled in class; their composition, characteristics, and place in nature are explained; the structure of the earth in its present form is studied; the history of its evolution, the age and characteristics of its strata, the chief geological features of each continent, and the forces at work are considered.

**Botany** is taught by text-book, plant analysis, and weekly lectures. A brief outline is first obtained of plant structure, physiology, growth, and reproduction. The subject is then reviewed by daily drill in analyzing, recording, classifying, and preserving specimens. The recorded analysis of 50 plants is required. Lectures explaining special forms of vegetable growth, the flora of this country, the cultivation, uses, and history of plants complete the work.

**Physiology.**—Every effort is made to impart clear ideas of the structure, parts, and functions of the human body. Special attention is given to the chemistry of foods, the laws of health, and the effects of stimulants and narcotics. Suggestions are also made as to poisons and their antidotes, the care of the sick, disinfection and sanitation, and accidents and emergencies. The subject is illustrated by the use of a manikin, charts, and preparations.

**Descriptive Chemistry** is taught by text-book and lectures. The object of the course is to give the student a general knowledge of the common elements, their sources, uses, compounds, and behavior towards other elements and compounds, and to drill the student in writing formulæ and solving chemical equations. To accomplish this, each student will be expected to spend at least five hours each week in the Laboratory, studying the characteristics and reactions of the elements and their compounds, and performing the experiments outlined in



the text and lectures. Notes will be kept by each student, describing the experiment and giving the equation which represents the reaction taking place. The Instructor from time to time examines the note-books, and makes such suggestions as he thinks may be helpful.

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## IX. ELOCUTION.

This department is open to all members of the Institute. Its aim is the correct and effective utterance of thought. Special attention is given to Voice Culture, Articulation, including Pronunciation and Expression. Weekly Rhetoricals, in Bucknell Hall, afford opportunity for platform work. Bible Reading and the study of Shakespeare have places in the course.

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## PHYSICAL CULTURE.

The health of the students is made a prime object of attention, and sanitary requirements are carefully observed. The Institute Gymnasium has been re-furnished, and classes in Physical Culture are organized for the benefit of all students. The exercises practiced are such as tend to develop grace and strength. The Jenness-Miller movements have been lately introduced. The Institute Campus of six acres furnishes facilities for exercise. Lawn Tennis and other out-door games are encouraged, and exercise in the open air is required.

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## ÆSTHETIC CULTURE.

It is intended that the pupils of the Institute shall have the influence unconsciously received from painting, music, and refined surroundings, as well as direct instruction in Literature, Music, and Art. Special instruction in Music and Art is given in the schools devoted to those subjects. Exercises in Free-hand Drawing are required of all students, except the Seniors.

The art collection has been recently enriched by a fine oil painting, "Tobit's Offering to the Angels," presented by Mrs. H. S. Hopper.

The Venus de Milo and other casts have also been added.

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## SOCIAL CULTURE.

Pupils are trained to observe the usages of good society. Meetings of various organizations for improvement in Literature, Music, and Art, and receptions in charge of the pupils add variety to student life. No effort is spared to give the pupils the advantages of a cultured home.

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## RELIGIOUS TRAINING.

The Institute is distinctively Christian in its influence. The morning Chapel exercises in Bucknell Hall are attended by the Institute students in

common with the members of other departments. Attendance upon Sabbath-school and church services in town is required. All students have weekly recitations in Inductive Bible Study. The students have organized several special classes for Scripture study.

**The Young Women's Christian Association**, a voluntary society open to the officers and students of the Institute, meets on the second Sunday and on the second Thursday of each month. The regular Tuesday evening prayer-meeting, with other devotional meetings, and missionary and temperance work, are in charge of this Association.

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### SPECIAL BRANCHES.

1. Italian and Spanish may be taken as optional studies, under the instruction of M. Elysée Aviragnet.

All optional studies must be pursued in connection with the regular classes.

2. Bible instruction is given once a week throughout the entire course.

3. Essays are required of all students each month.

4. Two declamations are required of each student during each term.

5. Exercises in Elocution are required once a week of all classes. The textbook is Shoemaker's Practical Elocution, and the course of instruction includes: Voice Culture; Modulation; Analytical Reading; Articulation—Phonetics; Expression—Gesture, and the study of Shakespeare.

6. Special individual instruction in Elocution is offered at fifty cents a lesson.

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### PUBLIC EXERCISES.

#### THE EXERCISES OF THE GRADUATING CLASS.

The Commencement Exercises of the Institute are held in the College Commencement Hall on Tuesday afternoon of Commencement week.

#### THE EXERCISES OF THE FOURTH-YEAR CLASS.

The Exercises of the Fourth-Year Class, a combined musical and literary entertainment, are held in Bucknell Hall on the first Saturday evening in the month of May.

#### THE CONTEST IN ELOCUTION.

A contest in Elocution for the prize in that subject, open to all members of the Institute, takes place in Bucknell Hall on the second Saturday evening in the month of May.

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### ALUMNÆ SOCIETIES.

**The Alumnæ Association** holds its anniversary on Monday afternoon of Commencement week.

**The Lewisburg Alumnæ Club** meets at the Institute on the second Tuesday evening of each month during term-time.

## STUDENTS' LOAN SOCIETY OF BUCKNELL INSTITUTE.

In June, 1887, there was organized in connection with Bucknell Institute an Association for the purpose of assisting young women of limited means to obtain an education. A fund was established by gifts from the Alumnæ Association and other friends of the Institute. The money is loaned to beneficiaries, who obligate themselves to return it, *without interest*, as soon after their graduation as they may be able.

The Association is composed of Acting Members, who contribute \$5.00 annually. The amount, however, is not limited; and larger or smaller sums will be welcome.

The Society meets in the parlors of the Institute on the first Tuesday morning after the opening of each term, at nine o'clock.

The annual meeting for the election of officers is held at the Institute on the first Tuesday after the opening of the school in September.

All contributions to the Society should be sent to the Treasurer, Mrs. T. H. Purdy, Sunbury, Pa.

Applications for aid should be made to the President, Mrs. Katherine B. Larison, Lewisburg, Pa.



## THE ART DEPARTMENT.

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### MISS CANDACE WOOD.

The facilities for the study of Art have been greatly increased by the accommodations allotted to this department, in a special Studio, which provides such adjustments for admission of light and unencumbered wall surface as render it adapted for the execution and display of art productions.

For such students as desire opportunity for work preparatory to professional study, and for those who wish to fit themselves to give systematic instruction in drawing, the following course is provided:

**First Year.**—Drawing in Pencil, Charcoal, and Crayon from solid geometrical forms, and portions of the human figure, with the necessary elements of Perspective, the Laws of Proportion, and the relations of Light and Shade.

**Second Year.**—Drawing from the Antique in Coal, Crayon, Sepia or oil Monochrome; Modeling in Clay or Wax. Study in Color from Draperies, and Still Life.

**Third Year.**—Composition, Color in Landscape, Pen and Ink Drawing, and Painting in Color from Nature and from Life.

On successful completion of this entire course a certificate of proficiency will be awarded.

Students who do not desire the certificate course and whose interest is in Decorative Work, will receive the requisite instruction in the latest methods—China Painting, Tapestry Dyeing, and applied Design in other mediums and materials.

Charges for instruction in Art are as follows:

	<i>Per Annum.</i>
Drawing, . . . . .	\$24 00
Crayoning, . . . . .	33 00
Painting in Oil, Water Colors, Pastel or on China, .	60 00
	<i>Per Lesson.</i>
Special individual instruction in Painting, . . . . .	\$1 00

Free-hand Drawing is a part of the required work of the school, without extra charge, and is taught in the class-room to all students except the Seniors.

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### ART EXHIBIT.

On the last three days of Commencement Week, a display of art products by the pupils of the School of Art is made in the Studio. At this time, a committee of art students receives and entertains all those who visit the Studio.

## THE BUCKNELL SCHOOL OF MUSIC.

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ELYSÉE AVIRAGNET, A. M., MUS. DOC., DIRECTOR.

MISS JULIET AIKEN, MISS IONA MORGAN, MISS MINNIE GOULD, INSTRUCTORS.

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The School of Music is under the special charge of a French artist, whose musical education was received at the Conservatory of Music in Paris, and who has had a large and successful experience in teaching. He is supported by competent assistants, and the course is designed to afford every needed facility for the study of Vocal and Instrumental Music. An ample supply of pianos from the best makers is provided for practice, including a Concert Grand.

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### INSTRUMENTAL MUSIC.

#### COURSE FOR THE PIANO-FORTE OF FOUR YEARS FOR GRADUATION.

The pupil is required to pursue the most thoroughly approved modern system of technical training. After the first rudiments have been mastered, the course of instruction leads to the practice of *études*, designed to unite with purely technical drill the requirement of artistic style and expression.

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### PIANO.

#### FIRST YEAR.

New England Conservatory Method, 1 and 2 parts; Le Couppey Ecole du Méchanisme; Duvernoy Ecole du Méchanisme, books 1, 2, and 3; Kohler, op. 157; Czerny, fifty Studies from op. 261, 821, 599, and 139, ed. of Henrich Germer; Meyer, Progressive and Melodious Studies; Robert Sutton's "The Elements of the Theory of Music;" Brown, Musical Biographies of Composers.

#### SECOND YEAR.

Plaidy, Technical Studies; Czerny, Polyrhythmic Studies from op. 139, 834, 335, and 299; Czerny, Studies of Ornamentation from op. 355 and 833; Czerny, twelve Studies from op. 299 and 740; Czerny, thirty Studies from op. 299 and 834 (Henrich Germer Edition); Heller, Expression and Rhythm, op. 125; Kul-lak, Preparatory Octave Studies; Rockstro, Practical Harmony; Rockstro, A History of Music.

## THIRD YEAR.

Clementi "Gradus ad Parnassum;" Tausig, Daily Studies; Kohler, op. 112; Cramer Studies, books 1, 2, and 3; Czerny, thirty-six Octave Studies from op. 821, 335, 740, and 834 (Henrich Germer Edition); Richter, Harmony; Dr. Marx, Universal School of Music.

## FOURTH YEAR.

R. Joseffy, daily Studies; Czerny, twenty Studies from op. 335; Czerny, nineteen Studies from op. 740; Czerny, Toccata, op. 92 (Henrich Germer Edition); Kullak, Octave Studies; Chopin, Studies; Liszt, Studies; S. Bach, Well Tempered Clavichord (prelude et fugues); Kullak, Art of Touch; Richter, Counterpoint; Reicha, Courses of Musical Composition.

During the four years, selected studies from Bertini, Rossellen, Moscheles, Hertz, and Thalberg are also given to the pupils.

That the æsthetic development may be proportionately secured, the above exercises are supplemented by the study of works of the best composers.

## COURSE FOR PIPE ORGAN.

The course is based upon:

F. Schneider's Practical Organ School, Thayer, Dudley Buck Pedal Studies, and upon works of Rink, Batiste, Lefébure—Wely, Guilmant, and others.

## COURSE FOR THE VIOLIN.

This course is based upon:

Dancá's School of Mechanism; De Beriot's Violinist's First Guide; Fiorillo's Studies; Alard's Studies; Kreutzer's Studies, etc., with selections from the compositions of the best writers for this instrument.

## COURSE FOR THE VIOLONCELLO.

Instruction for this instrument is based upon:

Méthod Pratique pour le Violoncello, par S. Lee.

## COURSE FOR VIOLA.

Bruni's Method and Studies.

## COURSE FOR CONTREBASSO (DOUBLE BASS).

Bottesini's Method.

## VOICE CULTURE.

## COURSE OF THREE YEARS FOR GRADUATION.

Careful instruction is given in the use of the voice, and the correct manner of producing purity of tone. To secure control over the voice and gain for it flexibility, fullness, and durability, thorough drill is afforded in such technical exercises as:



Lamperti's Italian Methods ; Ciro Pinsuti's Daily Exercises ; the Vocalises of Rossini, Marchesi, Brodogni, Ronconi, and Concone ; Duprez's L'Art du Chant ; Lamperti's Studies in Bravura Singing. For expression and the development of a pure style, practice is afforded in singing the best English, German, Italian, and French Songs, Operatic Arias, and Solos from the Oratorios.

COURSE IN HARMONY.

It is urgently recommended that the study of Harmony be included with other musical work, inasmuch as a sound knowledge of its principles is essential to the success of all vocalists and instrumentalists. The text-books used are :

Rockstro's Practical Harmony, Richter's Counterpoint, Reicha's Course of Musical Composition.

THE ORCHESTRA.

CLASSES FOR ALL ORCHESTRAL INSTRUMENTS.

Students who are sufficiently advanced in any of the above musical instruments will have opportunity of practice in string quartettes, trios, concertos, and symphonies of Beethoven, Mozart, and Haydn. The Orchestra furnishes the music for the public entertainments of the Institute.

THE BAND.

A Brass Band, consisting of about twenty pieces, has been organized, and is led by M. Elysée Aviragnet, Director of the School Music. The Band meets weekly in Bucknell Hall for rehearsal, and furnishes street and cornet music for University and town exercises.

RECITALS.

On the Friday evening prior to Commencement Week a public recital of the School of Music is held in Bucknell Hall.

The public examination of those who desire certificates of proficiency is held in Bucknell Hall the Saturday afternoon before Commencement. At this time each pupil plays or sings two pieces of high grade, and reads an essay on some subject connected with music.

TUITION.

Extra tuition is charged for instruction in Music, as follows.

	<i>Per Annum.</i>
Vocal Music, . . . . .	\$60 00
Music on Piano, <i>or</i> Organ, . . . . .	60 00
Harmony, in Class, . . . . .	18 00
Harmony, private lessons, . . . . .	60 00
Use of instrument for practice, . . . . .	10 00

*Per Lesson.*

Special individual instruction in Music, . . . . . \$1 00

No reduction will be made except in case of protracted illness.

Instruction in the Orchestra and in Harmony is free to pupils otherwise studying music.

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## RESIDENCE OF MUSIC PUPILS.

Pupils in music reside in the Institute, and are under the care of the Principal of the Institute. Students pursuing any of the Institute courses can also take studies in music. Those who wish to make music a specialty are recommended to take at least one study each term in Language or Literature, for which no additional charge will be made. When two or more studies are taken in the Literary Department, the regular rates will apply.

The regular charges for pupils in music, residing in the Institute, including one literary subject per term, are \$195 per annum. This *does not* include charges for instruction in music, which are determined by the number of lessons taken per week.

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## GRADUATION IN MUSIC.

Students who complete any of the Courses in Music and pass the examinations, receive a certificate of proficiency. Students will not be ranked as Seniors in music until they have passed an examination before the Committee. Besides the examination before the Committee for admission to the Senior Class, students will be required to pass a preliminary examination at the opening of the Spring term, and a final examination before Commencement Week. Students will not be admitted to the final examination unless they have passed the preliminary examinations.

---

## GRADUATES IN 1895.

NAME.	COURSES.	RESIDENCE.
ELBINA LAVINIA BENDER,	<i>Harmony and Piano.</i>	Lewisburg
MARY NETA MOYER,	<i>Harmony and Piano.</i>	Milton
MYRTLE SMITH,	<i>Harmony and Piano.</i>	Driftwood
MINNIE VISICK,	<i>Harmony, Pipe-Organ, and Piano.</i>	Strong

## GENERAL INFORMATION.

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### ADVANTAGES.

The Bucknell Institute offers to young ladies superior educational advantages. Its location in a University town assures an atmosphere of study, and the benefit of numerous literary exercises, lectures, and addresses. The students in the Institute have the use of the Library and apparatus of the Institute, and also of the College Astronomical Observatory, Chemical Laboratory, Museum and Library, and the various apparatus of the University. An isolated school could not provide for itself these advantages at a cost of less than a quarter of a million dollars.

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### ADMINISTRATIVE AND OTHER REGULATIONS.

1. The general control of the Institute is vested in the President of the University.
  2. The government of the Institute, subject to such control, rests with the Principal of the Institute.
  3. Young ladies attending the College or School of Music are subject to the rules and regulations governing young ladies attending the Institute.
- 

### RULES.

The laws governing the Institute are enacted by the Board of Trustees.

Any officer of the Institute becoming cognizant of violation of regulations by any pupil shall report the same to the Principal of the Institute, who shall make a record of the fact in a book provided for the purpose. Any second violation by the same pupil shall also be reported to the President of the University: and if, in the judgment of the President of the University, and the Principal of the Institute, the offense be of sufficient gravity, the parent or guardian of the offending pupil shall be notified.

Violations of the regulations of the Institute or infraction of the laws of morality are punished by private reprimand, deprivation of privileges, or private withdrawal from the Institute.

The following are selections from the regulations:

1. No student is allowed to leave the Institute grounds at any time without permission from the Principal.
2. Unless for reasons very satisfactory, students from a distance are not permitted to visit their homes, or to leave the Institute to visit with relatives or friends in town.



3. None but near relatives and friends from a distance are allowed to visit with boarding students, and such visits must be so arranged as not to interfere with the regular hours of study and recitation.

4. Students are not at liberty to invite guests to their private apartments, or to any part of the building, without permission from the Principal.

5. Teachers and students take their meals at the same table, and no special article of food is served to any one except in case of sickness.

6. Parents and guardians are particularly requested to refrain from furnishing their daughters and wards with *eatables of any kind*, except fruit.

7. Patrons visiting young ladies at the Institute may be accommodated with board at one dollar a day, if there are vacant rooms. In no case will students be required to give up their rooms to visitors. Visitors will conform to the general regulations of the Institute.

8. Regular and systematic exercise, both in the open air and in the Ladies' Gymnasium, is required of each student.

9. In the Regular Course, the number of daily recitations is fixed. Special students are required to engage in such a number as may, in the judgment of the Principal, be sufficient to occupy their time.

10. The character of each recitation is recorded at the time, and the result, together with a statement of the general industry and deportment of the student, is sent to the parent or guardian at the close of the term.

11. The passing grade in any study is a definite one, and must be attained before promotion can be secured.

12. No room will be reserved for a student unless definitely engaged.

13. The books and current periodicals of the College and Institute Libraries are available for all students.

14. ARTICLES REQUIRED.—Each student should be provided with an umbrella, water-proof, overshoes, table napkins, towels, covers for bureau and washstand, counterpanes, sheets and pillow-cases. The size of pillow is twenty by thirty inches; of the bureau, forty-three by nineteen inches; of the washstand, thirty-two by sixteen inches.

Every article of clothing should be marked with the owner's name in full.

It is especially desired that the dress of pupils shall be simple and inexpensive. Whenever practicable, the wardrobe should be prepared at home, to avoid frequent visits to town.

#### THE INFIRMARY AND DISPENSARY.

An infirmary, for students who become sick during their residence in the school, has been established in an isolated portion of the main building.

A dispensary, containing medicines for use in sudden illness, has also been established.

## PRIZES.

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### I. THE BUCKNELL PRIZES.

The following Prizes were founded by William Bucknell, of Philadelphia:

1. A First Senior Prize, to be awarded to the member of the graduating class who, being excellent in scholarship during the Senior Year, shall prepare the best essay.

2. A Second Senior Prize, to be awarded to the member of the graduating class who, being excellent in scholarship during the Senior Year, shall prepare the second best essay.

For the year 1895 the First Prize of twenty-four dollars was awarded to Grace Slifer, and the Second Prize of sixteen dollars to Jennie Davis.

3. A Third Senior Prize, to be awarded to the member of the graduating class who shall attain the highest grade in the studies of the Senior Year. This excludes all grades for studies not in the Senior Year, all Senior studies taken before the Senior Year, and all studies not taken in the Institute.

For the year 1895, this Prize of twenty-five dollars was awarded to Mary E. Wilson.

4. A First Fourth Year Prize, to be awarded to the member of the Fourth Year Class who, being excellent in scholarship during the year, shall prepare the best Fourth Year essay.

5. A Second Fourth Year Prize, to be awarded to the member of the Fourth Year Class who, being excellent in scholarship during the year, shall prepare the second best Fourth Year essay.

For the year 1895 these Prizes were awarded as follows: Emma Diruf Seiler received the First Prize of twenty dollars; Elizabeth Josephine Noyes the Second Prize of fifteen dollars.

The Fund consists of \$2,000, the income from which is to be devoted to these prizes annually in a manner more particularly defined in the donor's communication to the Trustees.

Themes for the Bucknell Essay prizes for the years 1896, 1897, will be drawn from the following works:

For 1896.—Shakespeare's Henry VIII; Lamb's Essays of Elia; Carlyle's Heroes and Hero Worship; Lowell's Vision of Sir Launfal; Hawthorne's Mosses from an Old Manse.

For 1897.—Shakespeare's Hamlet; Goldsmith's Deserted Village; Longfellow's Miles Standish; Hawthorne's Marble Faun.

### II. THE LIPPINCOTT PRIZE.

An award of fifty dollars has been offered by Mr. Craig Lippincott, to the student who proves, on examination, to have the best command of the English Language, and the most thorough knowledge of British and American Literature. For the year 1895 this Prize was awarded to Emma Beulah Hayes.

### III. THE ELOCUTION PRIZE.

A Prize in Elocution is offered to the student who shall give the best recitation at the Annual Contest.

For 1895 the Prize was awarded to Bessie Freas.

### IV. THE AVIRAGNET PRIZES.

Professor Elysée Aviragnet has established two Prizes, as follows:

1. A Prize of ten dollars for excellence in Music.

For 1895 this prize was awarded to Minnie Visick.

2. A Prize of ten dollars for excellence in French.

For 1895 this prize was awarded to Mary Thornton.



EXPENSES.

I. **Boarding Students.**—The regular charge for Boarding Students is \$230.00 per annum; the other expenses, spending-money, books and clothing, will vary with the individual student.

Students are charged extra for the washing of dresses, and for the washing of more than 12 pieces per week.

The rooms in the Bucknell Cottage are rented in suites, for which there is an extra charge, depending on the location.

	<i>Per Annum.</i>
Suite on the first floor, . . . . .	\$30 00
Suite on the second floor, . . . . .	34 00
Suite on the third floor, . . . . .	28 00

Each suite contains a study and two sleeping apartments, and has accommodations for four persons, and the charge will be divided accordingly.

If a student arranges to occupy one of the large rooms, in the South Hall of the Main Building, by herself, extra room-rent will be charged.

Students will be charged for damage done to furniture or to the room they occupy.

II. **Day Students.**—The charges for Day Students amount to \$55.00 per annum, and are apportioned as follows :

	<i>Per Annum.</i>
Tuition, . . . . .	\$36 00
Incidentals, etc., . . . . .	19 00
	<hr/>
	\$55 00

III. **Extra Studies.**—The charges for Elocution, Drawing, and Painting, and Music, will be found under those titles.

Bills are payable *strictly in advance*, on the 15th of September, January, and April.

Checks and drafts should be drawn in favor of the Registrar of the University.

No bill will be made out for a shorter period than one term ; and no deduction will be made except in the charge for board in case of a prolonged absence on account of sickness.

The expenses for Music, Printing, and other charges ordinarily incurred at Examinations and on Anniversary occasions, are paid by the class or classes which incur the expenses.

When music is furnished by the Institute Orchestra for public exercises, no charge is made.

The fee for Graduation and Diploma is \$5.00.

Free scholarships, covering tuition, are awarded to children of Ministers of the Gospel *in actual service*.

For information respecting the Institute, address the Principal, Mrs. Katherine B. Larison, A. W., or the President of the University, John H. Harris, Ph. D., LL. D.

# UNIVERSITY CALENDAR.

1896-97.

Second Term ends, . . . . . Friday, March 27, 1896

## SPRING RECESS.

Third Term begins, . . . . . Thursday, April 2, 1896  
Sermon before the Y. M. C. Associations, . . . . . Sunday, April 12, 1896  
Declamation of the Third Form, Academy, . . . . . Saturday, April 25, 1896  
Exercise of the Fourth Year Class, Institute, . . . . . Saturday, May 2, 1896  
Contests in Elocution, Institute, . . . . . Saturday, May 9, 1896  
Exhibition of the Junior Class, College, . . . . . Friday, May 22, 1896  
Examinations, . . . . . Thursday to Saturday, June 18 to 20, 1896  
Exhibition, School of Music, . . . . . Friday, June 19, 1896  
Baccalaureate Sermon, . . . . . Sunday, June 21, 1896  
Sermon before the Education Society, . . . . . Sunday, June 21, 1896  
Examinations for Admission to College, . . . . . Monday, June 22, 1896  
Meeting of the Alumnæ of the Institute, . . . . . Monday, June 22, 1896  
Oration before the Literary Societies, . . . . . Monday, June 22, 1896  
Annual Meeting of the Trustees, . . . . . Tuesday, June 23, 1896  
Annual Meeting of the Alumni, . . . . . Tuesday, June 23, 1896  
Exhibition of the Fourth Form, Academy, . . . . . Tuesday, June 23, 1896  
Graduating Exercises of the Institute, . . . . . Tuesday, June 23, 1896  
Oration before the Alumni, . . . . . Tuesday, June 23, 1896  
Annual Commencement, the 46th, . . . . . Wednesday, June 24, 1896

## SUMMER VACATION.

Examinations for Admission to College, . . . . . Wednesday, September 16, 1896  
First Term begins, . . . . . Thursday, September 17, 1896  
Reception by Christian Associations, . . . . . Saturday, September 19, 1896  
Introductory Address, . . . . . Monday, September 21, 1896  
Thanksgiving (recess of three days), . . . . . Thursday, November 26, 1896  
First Term ends, . . . . . Friday, December 18, 1896

## HOLIDAY RECESS.

Second Term begins, . . . . . Tuesday, January 5, 1897  
Day of Prayer for Colleges, . . . . . Thursday, January 28, 1897  
Second Term ends, . . . . . Friday, March 26, 1897

## SPRING RECESS.

Third Term begins, . . . . . Thursday, April 1, 1897  
Sermon before the Y. M. C. Associations, . . . . . Sunday, April 11, 1897  
Third Term ends, . . . . . Wednesday, June 23, 1897



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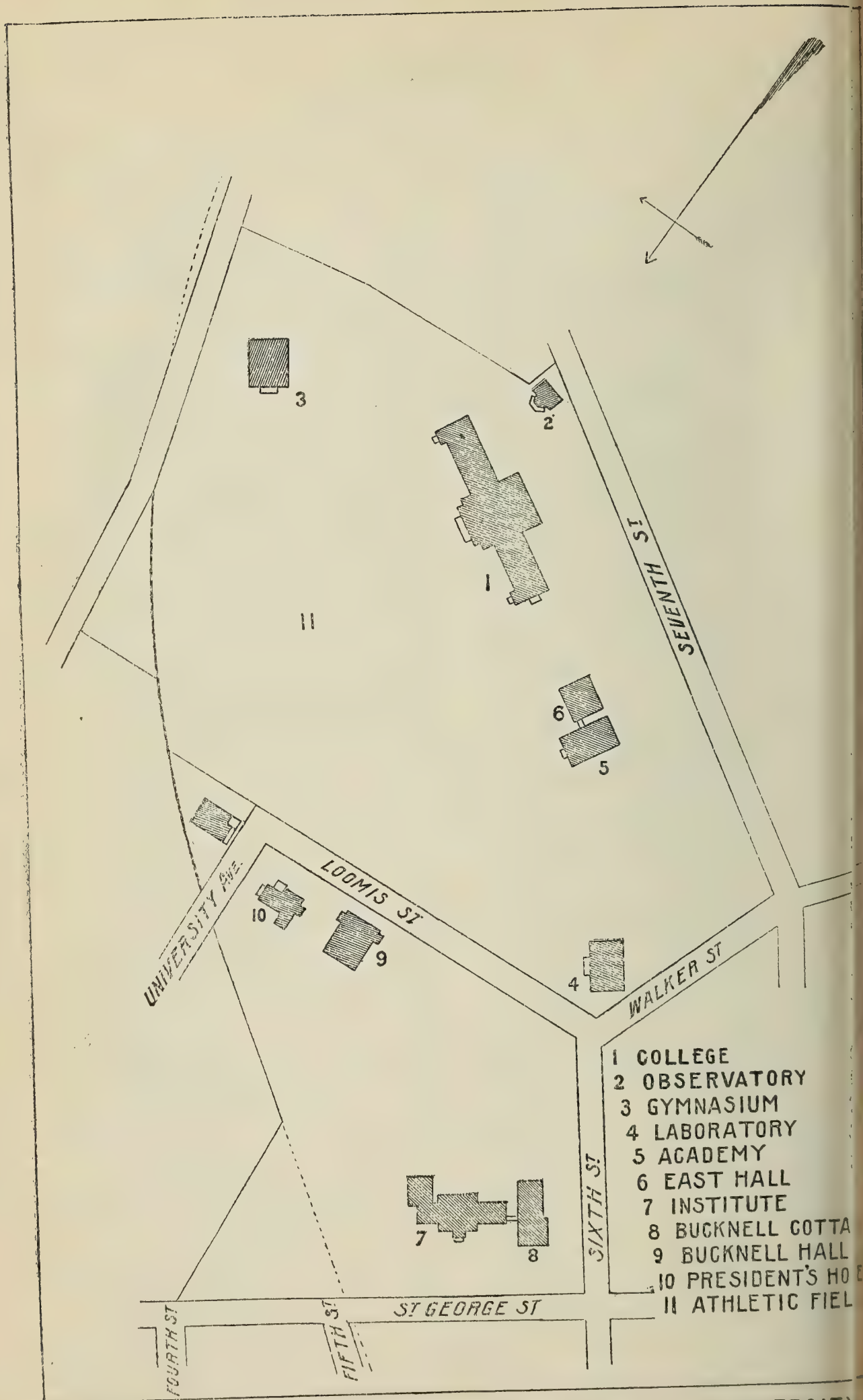
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MAP OF GROUNDS AND BUILDINGS—BUCKNELL UNIVERSITY

THE  
Forty-Seventh Annual Catalogue  
OF THE  
Officers and Students  
OF  
Bucknell University,

LEWISBURG, PA.

FOR THE YEAR 1896-'97

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PUBLISHED BY THE UNIVERSITY.



## LOCATION.

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Bucknell University is located at Lewisburg, near the geographical centre of the State, on the West Branch of the Susquehanna River, in a valley famous for healthfulness and beauty. In addition to the natural advantages of the site, the founders of the institution appreciated the quiet of an inland town for economical support and retirement in study, particularly as it was found that other corporations had so located "their respective colleges as to leave in the central and northern part of Pennsylvania, a region extending more than two hundred miles from east to west, and more than one hundred miles from north to south, wholly unoccupied by any literary institution above the grade of an ordinary academy." Since the founding of the University, the multiplication of railroads has rendered access easy to every part of the State.

## PLAN AND PURPOSE OF THE UNIVERSITY.

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### CORPORATE RIGHTS.

The University was incorporated with full University privileges, by the Legislature of Pennsylvania in an Act approved by the Executive on the fifth day of February, A. D. 1846. The Management of the University is committed to a Board of Trustees, consisting of twenty-five members, or fewer at the option of the Board. The Trustees are prohibited, for any cause, or under any pretext whatever, from encumbering by mortgage or otherwise the real estate or any other property of the Institution. It is required by the charter that no religious sentiments are to be accounted a disability to hinder the election of an individual to any office among the teachers of the Institution, or to debar persons from attendance as pupils, or in any manner to abridge their privileges or immunities as students in any department of the University.

### ENDOWMENT.

The Institution has productive funds amounting to over \$400,000. The endowment funds, raised at various times, were increased, in 1881, to an even \$200,000. Since that time William Bucknell contributed to the general fund \$115,000, and for scholarships and prizes about \$25,000.

One hundred thousand dollars additional endowment was raised in 1892.

### FORM OF BEQUEST.

To persons desiring to aid in increasing the efficiency of the schools in the work of preparing young men and young women for usefulness, the following form of bequest is recommended :

*I give and bequeath to the Bucknell University, at Lewisburg, Pa., the sum of.....dollars for the general purpose of said school, according to the Act of Assembly incorporating the same.*

### ORGANIZATION.

The University aims to impart sound instruction in all non-professional studies. It comprises four departments :

I. **The College** offers four courses of study, leading respectively to degrees in Arts, Philosophy, and Science.

II. **The Institute** for young women has three courses of study, the Literary, the Classical, and the Scientific, leading to diplomas, but not to degrees.

III. **The Academy** is designed to fit young men for College, either for the Classic, Philosophical, or Scientific course.

IV. **The School of Music** has full courses in instrumental and vocal music, and grants diplomas to those who complete either of the specified courses.

These schools are one corporation, have one President, who has general charge, with a principal in more immediate charge of each of the subordinate departments. All expenses are met from funds in the hands of a common treasurer.

## THE BOARD OF TRUSTEES.

---

CHAIRMAN, HARRY S. HOPPER, ESQ.,

28 South Third Street, Philadelphia.

SECRETARY, REV. A. JUDSON ROWLAND, D. D.,

1632 Chestnut Street, Philadelphia.

TREASURER, REV. DAVID P. LEAS, A. M.,

400 South Fortieth Street, Philadelphia.

---

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REV. HENRY G. WESTON, D. D., LL. D.

HON. S. P. WOLVERTON, LL. D.

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## MEETINGS OF THE BOARD.

The annual meeting is held on Tuesday of Commencement week, at Lewisburg.

The semi-annual meeting is held on the second Thursday of January, at 1420 Chestnut Street, Philadelphia.



## COMMITTEES OF THE BOARD.

### COMMITTEE ON INSTRUCTION AND DISCIPLINE:

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HON. CHARLES MILLER, A. M.,	HON. HAROLD M. McCLURE, A. M.

### COMMITTEE ON PUBLICATION:

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REV. C. C. BITTING, D. D.,	REV. LEROY STEPHENS, D. D.,

AND THE PRESIDENT.

## THE UNIVERSITY PROPERTY.

### I. THE COLLEGE.

The main College building is situated on a hill one hundred feet above the Susquehanna River, and overlooks scenery of unsurpassed beauty. It was designed by Thomas U. Walter, LL. D., architect of the dome and wings of the Capitol at Washington, D. C., and is in the Grecian style, combining dignity and simplicity. The Building has a façade of three hundred and twenty feet. The central portion is eighty feet square, and is strengthened in front by four massive columns. On the first floor are five recitation rooms. On the second floor are the Halls of Theta Alpha and Euepia Literary Societies, the Library-room, Reading-room, and Museum of Natural History.

In the third story is Commencement Hall, with a seating capacity of fifteen hundred.

The wings on the eastern and western sides, respectively, of the Main Building, are each one hundred and twenty feet in length, and four stories in height, and are used for students' rooms. Each sleeping room above the second floor is supplied with a fire escape.

Several thousand dollars have been expended recently in improving the college building.

### II. BUCKNELL HALL.

Bucknell Hall is the chapel of the University. In it all the students of the various departments meet daily for worship. The exercises consist in the reading of Scripture, in singing, and in prayer. This service tends to give unity to the life of the University.

### III. BUCKNELL OBSERVATORY.

The Observatory was erected in 1887, and is designed for the use of students in Practical Astronomy.

The entire equipment is new and represents the latest improvements in astronomical instruments. It consists of a Clark Equatorial Telescope of 10 inches aperture and  $12\frac{1}{2}$  feet focal length, furnished with a fine position Micrometer and all the usual accessories; a Spectroscope, with prism and grating by Brashear, the grating having 14,500 lines to the inch; a 3-inch Prismatic Transit with a 13 wire movable Micrometer by T. Ertel & Sons; a Fauth Chronograph with Bond Spring Governor; a Waldo Precision Clock for sidereal time, with mercurial compensation, break circuiting apparatus; Daniell's battery and telegraph sounders; a Seth Thomas Clock for solar time; a Sextant; a 3-inch Altitude Azimuth Refractor; a set of Meteorological instruments; Celestial globes and maps, and standard works on Theoretical and Practical Astronomy.

#### IV. THE BUCKNELL LABORATORY.

The Laboratory was erected in 1890, and is a building forty-three feet in width and eighty-six feet in length, with two stories above the basement. In the first story, which has a clear height of fifteen feet, are a lecture-room, with seating for one hundred and twenty-five students, and a large working-room, in which are tables for individual work in Chemical Analysis; the second floor contains a lecture-room for the class in Physics, and one room each for Quantitative and Qualitative Analysis; the basement has a dark room for Photometry, a room for Applied Chemistry, another for Electricity, and a fire-proof room.

#### V. THE TUSTIN GYMNASIUM.

The basement of the Gymnasium is built of stone, and contains rooms for students' lockers, dressing-rooms, and shower-baths. The second story is built of brick, rising twenty-two feet from the main floor to the square, and is open to the roof. At the height of twelve feet a running-track gallery, six feet wide, surrounds the room.

#### VI. THE UNIVERSITY ATHLETIC FIELD.

The field is conveniently located at the foot of "College Hill," and has been graded and fitted up for out-door sports. In the northwest corner, at the main entrance to the college grounds, a shaded section has been set aside for tennis. The athletic field is sufficiently large for foot-ball, base-ball, and lacrosse. Tustin Gymnasium is located at the end of the field, so as to be near the centre of exercise, and easily accessible to the trainers and students.

#### VII. THE ACADEMY.

**1. The Main Building** of the Academy is situated on "College Hill," and is fifty feet in width by eighty feet in length, and three stories in height. On the first floor is a dining-room, thirty feet by thirty-six feet; two recitation-rooms, a reception-room, and the Principal's office; on the second floor are suites of rooms for the Principal and his family and for the Matron, and a society hall; the third floor is occupied by students' rooms. These are twenty feet by twelve feet, and fourteen feet high. Over three thousand dollars have been recently expended in the improvement of this building.

**2. The East Hall** of the Academy is the Bucknell Cottage for young men, and is contiguous to the main building and connected with it by a covered passage-way. It is of brick, three stories high, sixty feet in length and forty feet in width, and is finished in natural wood. The building contains a recitation-room, teachers' apartments, and rooms for students. The rooms have high ceilings, large double windows with inside shutters, and two commodious closets each.

Both buildings are supplied with hot and cold water and are warmed by steam.



## VIII. THE LADIES' DEPARTMENT.

The buildings and campus of this department are set apart to the use of ladies taking courses in the College, in the Institute, and in the School of Music.

**1. The Main Building** contains, on the first floor, an office for the Principal and the Registrar, a reception-room, the office of the Director of Music, five music-rooms, two recitation-rooms, and a dining-hall; on the second floor a school-room and a parlor elegantly furnished; on the third floor a library-room, teachers' apartments, and students' rooms.

**2. The South Hall**, erected in 1869, is devoted to students' rooms, except the third story, which is used as a gymnasium. This gymnasium has been lately renovated and equipped.

**3. The Bucknell Cottage** stands to the southwest of the Main Building, and is connected with it by an enclosed passage-way. It is built of brick, in the Queen Anne style of architecture, and has dimensions of one hundred feet by thirty-three feet. The interior is finished in natural wood, and is equipped, in matters of light, heat, and ventilation, with modern improvements.

The portion allotted to students' rooms affords accommodations for forty occupants. These rooms are in suites on the general plan of a centre parlor, with bed-rooms and closets on either side. The most spacious rooms of the building and its chief attraction is the **Studio**, with such adjustments for the admission of light and supply of unencumbered wall surfaces as adapt it for the execution and display of art products.

All the buildings are supplied with hot and cold water. Steam pipes and radiators warm every room.

**4. The Campus** of the Ladies' Department comprises six acres, separated from the college grounds by Loomis Street, and contains a grove of trees.

## IX. THE PRESIDENT'S HOUSE.

The Corporation also owns a house for the use of the President of the University.

## THE COLLEGE.

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JENNY PIATT McCARTY,	<i>Lewisburg.</i>	Mrs. Henrietta F. McCarty
FREDERICK WILLIAMS MCFARLIN,	<i>Ridgway.</i>	No. 22, East Wing
CHARLES RUTHERFORD McLAIN,	<i>Watsonstown.</i>	Mr. James McLain
LIVINGSTON McQUISTION, JR.,	<i>Butler.</i>	Mrs. Howard Slear
HERBERT McKINNEY OLMSTED,	<i>Emporium.</i>	No. 25, East Wing
CHARLES JUDD PEARSE,	<i>Erie.</i>	No. 29, West Wing
ALBERT ERNEST PITTMAN,	<i>Watsonstown.</i>	Mrs. Fannie Pittman
JAMES ST. CLAIR POLITTE,	<i>New York City.</i>	Mrs. Henry Wilson
EMELIE LOUISE POOLEY,	<i>Ridgefield, N. J.</i>	Institute
EMMA CLARE PROBASCO,	<i>Bridgeton, N. J.</i>	Institute
EDGAR REED,	<i>Lairdsville.</i>	No. 4, West Wing
STEPHEN FLOCK REED,	<i>Lawrence Station, N. J.</i>	Wolfe Block
ARTHUR DOUGHERTY REES,	<i>Philadelphia.</i>	No. 16, East Hall



NAME.	RESIDENCE.	ROOM.
WALTER HARTRANFT RENN,	<i>Turbotville.</i>	No. 13, East Wing
GREEN MILES ROBBINS,	<i>Moorestburg.</i>	No. 2, East Wing
FRANK MONROE SCHAEFFER,	<i>Shelley.</i>	No. 29, East Wing
JOHN SHERMAN,	<i>Philadelphia.</i>	No. 29, West Wing
HARRY COLLINS SIMONS,	<i>Oak Lane, Phila.</i>	No. 20, East Hall
ANDREW JACKSON SHERWOOD,	<i>Union City.</i>	No. 31, West Wing
LORRAINE JAMES SHOEMAKER,	<i>Muncy.</i>	No. 24, East Wing
EDGAR KIMMEL SHUMAKER,	<i>New Bethlehem.</i>	Chapter House
THORNTON MOORE SHORKLEY,	<i>Lewisburg.</i>	Mr. Elisha Shorkley
HARVEY ELMER STABLER,	<i>Warrensville.</i>	No. 12, West Wing
GEORGE DRAYTON STRAYER,	<i>Plymouth Meeting.</i>	No. 5, East Wing
EUGENE CONSTANT SWITZER,	<i>Emporium.</i>	No. 25, East Wing
FRANCIS MARION STAPLETON,	<i>Lewisburg.</i>	Rev. A. Stapleton
ISAAC RAYMOND VINCENT,	<i>Watsonstown.</i>	Mr. Geo. W. Vincent
EZRA JAY WAGER,	<i>Hillsgrove.</i>	No. 2, East Wing
HARRY BORNETRAEGER WASSELL,	<i>Pittsburg.</i>	No. 6, West Wing
MARGARET ELLEN WENSEL,	<i>Lewisburg.</i>	Mr. James Wensel
CLARENCE ANDREW WEYMOUTH,	<i>Lock Haven.</i>	No. 11, East Wing
MABEL ESTELLA WHEELER,	<i>Erie.</i>	Institute
AUGUSTA GENEVIEVE WHITE,	<i>Bradford.</i>	Institute
JOHN HERBERT WILLIAMS,	<i>Forest City.</i>	No. 19, West Wing
GRACE SOPHRONIA WOODARD,	<i>Bradford.</i>	Institute
ALICIA ZIERDEN,	<i>Johnsonburg.</i>	Institute
FRESHMEN, 66.		

PURSUING SPECIAL STUDIES.

NAME.	RESIDENCE.	ROOM.
WILLIAM CARTER DICKERMAN,	<i>Milton.</i>	Mr. C. H. Dickerman
WILLIAM ISAAC GOLD,	<i>Nazareth.</i>	No. 22, East Wing
JOHN ARTHUR HAGUE,	<i>Plymouth.</i>	No. 4, West Wing
EMMONS LEDYARD PECK,	<i>Carbondale.</i>	No. 21, East Hall
FREDERICK W. ROBBINS,	<i>Muncy.</i>	At Home
HARRY RUHL THORNTON,	<i>Lewisburg.</i>	T. C. Thornton, M. D.
MARY ALICE THORNTON,	<i>Lewisburg.</i>	T. C. Thornton, M. D.
SARA VAN GUNDY,	<i>Lewisburg.</i>	Prof. Christian Van Gundy
	SPECIALS, 8.	

SUMMARY.

Graduate Students, . . . . .	18
The Senior Class, . . . . .	37
The Junior Class, . . . . .	37
The Sophomore Class, . . . . .	57
The Freshman Class, . . . . .	66
Pursuing Select Studies, . . . . .	8
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Total in the College, . . . . .	223
In other departments, . . . . .	201
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Total in all departments, . . . . .	424

## ADMISSION.

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### TO FRESHMEN STANDING.

**I. General Requirements.**—Examinations for admission to the Freshman Class will be held on Monday of Commencement week. Candidates will assemble in Bucknell Hall at 8.30 A. M.

Similar examinations are also held on the day preceding the opening of each term. In special cases, candidates may be examined and admitted at other times in the year.

Candidates are expected to be well prepared in the English branches named below. They will be as strictly examined in these studies as in the Ancient Languages and Mathematics.

There must be furnished to the President by the candidate, satisfactory testimonials of good moral character, and, if from another college, a certificate of honorable dismissal must be presented.

The required age for admission to the Freshman Class is fifteen years.

**II. Particular Requirements.**—They are as follows for the respective courses :

#### I. THE CLASSICAL COURSE.

To enter the Classical Course, the student must sustain an examination in :—  
ENGLISH.

1. Writing from dictation.
2. English Grammar.
3. Elements of Rhetoric—Invention, Style, and Punctuation.
4. A brief composition upon a subject assigned at the time of the examination.

No candidate will be accepted in English whose work is notably defective in spelling, punctuation, idiom, or division into paragraphs.

1. *Reading.*—A certain number of books will be set for reading. The candidate will be required to present evidence of a general knowledge of the subject-matter, and to answer simple questions on the lives of the authors. The form of examination will usually be the writing of a paragraph or two on each of several topics, to be chosen by the candidate from a considerable number—perhaps ten or fifteen—set before him in the examination paper. The treatment of these topics is designed to test the candidate's power of clear and accurate expression, and will call for only a general knowledge of the substance of the books. In place of a part or the whole of this test, the candidate may present an exercise book, properly certified by his instructor, containing compositions or other written work done in connection with the reading of the books.

I. The books set for this part of the examination will be :

1897 : Shakspeare's *As You Like It* ; Defoe's *History of the Plague in Lon-*



don ; Irving's Tales of a Traveller ; Hawthorne's Twice Told Tales ; Longfellow's Evangeline ; George Eliot's Silas Marner.

1898 : Milton's Paradise Lost, Books I and II ; Pope's Iliad, Books I and XXII ; The Sir Roger de Coverley Papers in *The Spectator* ; Goldsmith's The Vicar of Wakefield ; Coleridge's Ancient Mariner ; Southey's Life of Nelson ; Carlyle's Essay on Burns ; Lowell's Vision of Sir Launfal ; Hawthorne's The House of the Seven Gables.

1899 : Dryden's Palamon and Arcite ; Pope's Iliad, Books I, VI, XXII, and XXIV ; The Sir Roger de Coverley Papers in *The Spectator* ; Goldsmith's The Vicar of Wakefield ; Coleridge's Ancient Mariner ; De Quincey's The Flight of a Tartar Tribe ; Cooper's Last of the Mohicans ; Lowell's Vision of Sir Launfal ; Hawthorne's The House of the Seven Gables.

1900 : Dryden's Palamon and Arcite ; Pope's Iliad, Books I, VI, XXII, and XXIV ; The Sir Roger de Coverley Papers in *The Spectator* ; Goldsmith's The Vicar of Wakefield ; Scott's Ivanhoe ; De Quincey's The Flight of a Tartar Tribe ; Cooper's The Last of the Mohicans ; Tennyson's The Princess ; Lowell's The Vision of Sir Launfal.

**II. Study and Practice.**—This part of the examination presupposes the thorough study of each of the works named below. The examination will be upon subject-matter, form, and structure.

The books set for this part of the examination will be :

1897 : Shakspeare's The Merchant of Venice ; Burke's Speech on Conciliation with America ; Scott's Marmion ; Macaulay's Life of Samuel Johnson.

1898 : Shakspeare's Macbeth ; Burke's Speech on Conciliation with America ; De Quincey's The Flight of a Tartar Tribe ; Tennyson's The Princess.

1899 : Shakspeare's Macbeth ; Milton's Paradise Lost, Books I and II ; Burke's Speech on Conciliation with America ; Carlyle's Essay on Burns.

1900 : Shakspeare's Macbeth ; Milton's Paradise Lost, Books I and II ; Burke's Speech on Conciliation with America ; Carlyle's Essay on Burns.

#### MATHEMATICS.

1. Arithmetic, including the Metric System.
2. Algebra, including Quadratic Equations. The requirements in this study are intended to include the treatment of Radicals, and will be most nearly met by the use of Well's University Algebra.
3. Plane Geometry.

#### LATIN.

1. Latin Grammar—Allen and Greenough's or Harkness'.
2. Daniell's Latin Prose Composition.
3. Four Books of Cæsar's Commentaries.
4. Six orations of Cicero.
5. Six Books of Vergil's Æneid.

#### GREEK.

1. Greek Grammar—Hadley and Allen's or Goodwin's.
2. The equivalent of Jones' Greek Prose Composition—20 Lessons.
3. Greek Reader.
4. Four Books of Xenophon's Anabasis.
5. Three Books of Homer's Iliad.

## HISTORY.

1. History of Rome.
2. History of Greece.
3. Elements of United States History.

## SCIENCE.

1. Geography—Descriptive, Political, and Physical.
2. The student is recommended to read some elementary work on Physics and on Physiology, also Morse's "First Book in Zoölogy," Gray's "How Plants Grow," and Dana's "Geological Story Briefly Told." This reading should be done before entering upon the studies of the Sophomore year. The necessary books can be obtained in the University Library.

In any of the subjects of examination, satisfactory equivalents will be accepted for the text-books named.

**II. THE PHILOSOPHICAL COURSE.**

I. THE LATIN DIVISION.—To enter the Latin Division of the Philosophical Course, the candidate must sustain an examination in the above-named studies, except Greek, and in Elementary Physics and Physiology.

II. THE GREEK DIVISION.—To enter the Greek Division of the Philosophical Course, the candidate must sustain an examination in the above-named studies, except Cicero and Vergil, and in Elementary Physics and Physiology.

**III. THE SCIENTIFIC COURSE.**

To enter the Scientific Course, the candidate must sustain examination in English Grammar, Elements of Rhetoric, English Composition, Arithmetic, including the Metric System; Algebra, through Quadratic Equations, and Plane Geometry; Latin Grammar, Latin Composition (Daniell's Part I, or an equivalent), Cæsar's Commentaries, Four Books; Elementary Physics, Physiology and Hygiene, and Botany; Geography, Mathematical, Political, and Physical; History of the United States, General History, and Civil Government.

**ADMISSION ON CERTIFICATE.**

Graduates of Bucknell Institute in any of the courses will be admitted to the Sophomore year of the corresponding courses in the College.

Graduates from Bucknell Academy in the Classical Course, or in the Scientific Course, will be admitted to the corresponding course in College upon the certificate of the Principal of the Academy.

Graduates of Pennsylvania State Normal Schools are admitted to the Scientific Course without examination.

Students who have completed a course of study in preparatory schools of high grade may be admitted upon the certificate of the Principal of the school from which they come.

**CONDITIONAL ADMISSION.**

A candidate failing to pass in one or more of the subjects required for admission, may, at the discretion of the Faculty, be admitted to his class conditionally, to make up his deficiencies by extra study. When they are made up, he will be received into full standing in his class.

**SPECIAL STUDENTS.**

Students who do not desire to take a full regular course, can enter and select special shorter courses, with the sanction of the Faculty; but, in all cases, satisfactory examinations must be passed upon the subjects required for admission to the Freshman class of the course from which they intend to select.

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**TO ADVANCED STANDING.**

**I. General Requirements.**—A proportionate increase of age is required for admission to advanced classes over that required for admission to Freshman standing. Other general requirements are the same as for admission to the Freshman Class.

**II. Particular Requirements.**—Candidates for admission to advanced classes are examined both as for admission to Freshman standing and also in the studies that have been pursued by the class which they desire to enter.

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**LOCAL EXAMINATION FOR ADMISSION.**

Arrangements have been made for conducting entrance examinations at Philadelphia, Pittsburg, Harrisburg, and Scranton. Those intending to present themselves for examination at either of these places should inform the President of the University of their intention, and the necessary information as to details will be furnished.

The next examinations will be held Friday, June 18th, 1897.



## COURSES OF STUDY.

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The following Courses of Study may be pursued in the College:

I. **The Classical Course** extends through four years, and aims to furnish a liberal education in classical and modern literature, the sciences and the arts. It comprises, substantially, the studies of the established college curriculum, with the addition of such branches as modern life seems to demand. The studies in the Freshman year and in the first two terms of the Sophomore year are all required; in the third term of the Sophomore year and in the Junior and Senior years, most of the studies are elective. Students who have satisfactorily pursued this course are admitted to the degree of Bachelor of Arts.

II. **The Philosophical Course**, with Latin or Greek, in each of its two divisions, also extends through four years, and aims to furnish a thorough training in advanced studies to those who desire to pursue but one of the Ancient Languages. This course contains four terms of such language study, be it of Latin or Greek, most of the other studies of the Classical Course, with some addition of Scientific subjects. Students pursuing this course recite, as far as possible, with the classical students. Those who have completed the studies of the course are admitted to the degree of Bachelor of Philosophy.

III. **The Scientific Course** extends through four years, and is substantially the same as the Philosophical Course, with the substitution of additional Mathematical, Scientific and Modern Language studies for Latin and Greek. Those who have completed the course are admitted to the degree of Bachelor of Science.

In the selection of optional studies in the above courses, the choice is made with the approbation of the Faculty.

IV. **The Eclectic Course** is not limited to any definite time, and does not lead to any degree. It is designed to furnish advanced instruction in literature, science, and the arts, to students who do not intend to pursue a regular course of study, but desire to select certain branches. The College will furnish special students with such studies as they may elect only at times announced in the Curricula. Every student is required to select at least three studies from those taught during any given term, and these are to be pursued at the same time. Students will not be allowed to pursue studies for which they are not fully qualified by their previous training. A certificate will be given by the President, at any time, stating what studies have been completed and the grade attained in them. This certificate will be accepted as equivalent to an examination, if the holder, at any time, desires to be transferred to one of the regular courses.

V. **Advanced Courses** in Literature, Philosophy, and Science have been established, leading respectively to the degrees of Master of Arts, Master of Philosophy, and Master of Science. These courses are open to graduates of Bucknell University only. Particulars may be learned by addressing the President.

## CURRICULA.

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### THE CLASSICAL COURSE.

*Leading to the Degree of Bachelor of Arts.*

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#### FRESHMAN YEAR.

I. TERM—	{ Geometry, Algebra, Cicero de Senectute and Livy, Odyssey, Greek Prose Composition,	Lectures on Hygiene, Lectures on the Essay, English Composition, Elocution.
II. TERM—	{ Trigonometry, Algebra, Livy, Herodotus and Thucydides, Greek Testament,	Lectures on Derivatives, English Composition, Elocution.
III. TERM—	Analytical Geometry, Paterculus and Pliny, { Lysias' Orations, Greek Testament,	Chemistry, Course 1, English Composition, Elocution.

#### SOPHOMORE YEAR.

I. TERM—	Chemistry, Course 2, Horace, Rhetoric,	Linear Perspective, English Composition, Elocution.
II. TERM—	Animal Physiology, Demosthenes, English Literature,	History of Art, English Composition, Elocution.
III. TERM—	Botany, German,	English Versification, English Composition, Elocution.

#### ELECTIVE STUDIES:

<i>Juvenal,</i> <i>English Oratory,</i> <i>Elocution,</i>	<i>Higher Analytical Geometry,</i> <i>Civil Engineering,</i> <i>Anthropology,</i> <i>Chemistry, Course 3.</i>
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## JUNIOR YEAR.

I. TERM—Mechanics,  
French,

Elocution.

History of Education,  
Orations,

## ELECTIVE STUDIES :

*Æschylus and Sophocles,*  
*Plautus and Terence,*  
*Quintilian,*  
*German, Course 2,*  
*History, Course 6,*  
*History, Course 7,*

*Parliamentary Law,*  
*Differential Calculus,*  
*Surveying,*  
*Chemistry, Course 4,*  
*Biology,*  
*Sociology.*

II. TERM—Physics,  
Orations,

Electricity and Magnetism.  
Elocution.

## ELECTIVE STUDIES :

*Euripides,*  
*Plato's Apology and Crito,*  
*Roman Philosophy,*  
*German, Schiller,*  
*French, Course 2,*  
*Hebrew,*  
*English Bible,*  
*History, Course 4,*

*Logic,*  
*Advanced Composition,*  
*Integral Calculus,*  
*Advanced Algebra,*  
*Chemistry, Course 5,*  
*Animal Histology,*  
*Embryology,*  
*Human Anatomy.*

III. TERM—Astronomy,  
Orations,

Geology,  
Elocution.

## ELECTIVE STUDIES :

*Aristophanes,*  
*Latin Inscriptions,*  
*German, Goethe,*  
*French, Course 3,*  
*Hebrew,*

*English Bible,*  
*American Civics,*  
*History, Course 5,*  
*Physics,*  
*Chemistry, Course 6,*

*Plant Histology.*

And subjects offered in the third term of the Sophomore year.

## SENIOR YEAR.

I. TERM—Psychology,  
Orations.

Literature,

## \* ELECTIVE STUDIES.

*Demosthenes de Corona,*  
*Tacitus, Annals,*  
*German, Lessing,*  
*French, Course 4,*

*Anglo-Saxon,*  
*History, Course 1,*  
*Practical Astronomy,*  
*Geology,*

*Chemistry, Course 7.*

\* Seniors may take any of the electives of the Junior year for corresponding terms.



## II. TERM—Ethics,

History of Philosophy,  
Orations.

## \* ELECTIVE STUDIES:

<i>Plato,</i>	<i>History, Course 2,</i>
<i>German, Course 6,</i>	<i>Economics,</i>
<i>French, Course 5,</i>	<i>Roman Law,</i>
<i>Comparative Anatomy,</i>	<i>Human Osteology,</i>
<i>Chemistry, Course 8.</i>	

## III. TERM—Theism,

Greek Literature,  
Orations.

## \* ELECTIVE STUDIES:

<i>Greek Testament,</i>	<i>French, Course 6,</i>
<i>Comparative Philology,</i>	<i>Shakspeare,</i>
<i>German, Course 7,</i>	<i>Constitutional Law,</i>
<i>Zoölogy,</i>	<i>Chemistry, Course 9,</i>
<i>History, Course 3.</i>	

## II. THE PHILOSOPHICAL COURSE.

*Leading to the Degree of Bachelor of Philosophy.*

## A. Latin Division.

## FRESHMAN YEAR.

I. TERM—{	Geometry,	Lectures on Hygiene,
	Algebra,	Lectures on the Essay,
	Cicero de Senectute, and Livy,	English Composition,
	German,	Elocution.
II. TERM—{	Trigonometry,	Lectures on Derivatives,
	Algebra,	English Composition,
	Livy,	Elocution.
	German,	
III. TERM—	Analytical Geometry,	Chemistry, Course 1,
	Paterculus and Pliny,	English Composition,
	French,	Elocution.

## SOPHOMORE YEAR.

I. TERM—	Chemistry, Course 2,	Linear Perspective,
	Rhetoric,	English Composition,
	Horace,	Elocution.

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\* Seniors may take any of the electives of the Junior year for corresponding terms.

II. TERM—Animal Physiology,  
English Literature,  
Advanced Algebra,

History of Art,  
English Composition,  
Elocution.

III. TERM—Botany,  
English Composition,

English Versification,  
Elocution.

## ELECTIVES:

*Juvenal,*  
*English Oratory,*  
*Elocution,*

*Higher Analytical Geometry,*  
*Civil Engineering,*  
*Chemistry, Course 3,*

*Anthropology.*

## JUNIOR YEAR.

I. TERM—Mechanics,  
French,

History of Education,  
Orations,

Elocution.

## ELECTIVE STUDIES:

*Plautus and Terence,*  
*German, Course 2,*  
*History, Course 6,*  
*History, Course 7,*  
*Parliamentary Law,*

*Differential Calculus,*  
*Surveying,*  
*Chemistry, Course 4,*  
*Biology,*  
*Sociology.*

II. TERM—Physics,  
Orations,

Electricity and Magnetism,  
Elocution.

## ELECTIVE STUDIES:

*Roman Philosophy,*  
*German, Schiller,*  
*French, Course 2,*  
*Hebrew,*  
*English Bible,*  
*History, Course 4,*

*Logic,*  
*Advanced Composition,*  
*Integral Calculus,*  
*Chemistry, Course 5,*  
*Animal Histology,*  
*Embryology,*

*Human Anatomy.*

III. TERM—Astronomy,  
Orations,

Geology,  
Elocution.

## ELECTIVE STUDIES:

*Latin Inscriptions,*  
*German, Goethe,*  
*French, Course 3,*  
*Hebrew,*  
*English Bible,*

*American Civics,*  
*History, Course 5,*  
*Physics,*  
*Chemistry, Course 6,*  
*Plant Histology,*

And subjects offered in the third term, Sophomore year.

**SENIOR YEAR.**

I. TERM—Psychology, Literature,  
Orations.

**\*ELECTIVE STUDIES:**

<i>Tacitus: Annals,</i>	<i>Anglo-Saxon,</i>
<i>German, Lessing,</i>	<i>History, Course 1,</i>
<i>French, Course 4,</i>	<i>Practical Astronomy,</i>
<i>Geology,</i>	<i>Chemistry, Course 7.</i>

II. TERM—Ethics, History of Philosophy,  
Orations.

**\*ELECTIVE STUDIES:**

<i>German, Course 6,</i>	<i>History, Course 2,</i>
<i>French, Course 5,</i>	<i>Roman Law,</i>
<i>Economics,</i>	<i>Human Osteology,</i>
<i>Comparative Anatomy,</i>	<i>Chemistry, Course 8.</i>

III. TERM—Theism, Greek Literature,  
Orations.

**\*ELECTIVE STUDIES:**

<i>Comparative Philology,</i>	<i>Shakspeare,</i>
<i>German, Course 7,</i>	<i>History, Course 3,</i>
<i>French, Course 6,</i>	<i>Constitutional Law,</i>
<i>Zoölogy,</i>	<i>Chemistry, Course 9.</i>

**B. Greek Division.****FRESHMAN YEAR.**

I. TERM—{ Geometry, Lectures on Hygiene,  
Algebra, Lectures on the Essay,  
Odyssey, English Composition,  
German, Elocution.

II. TERM—{ Trigonometry, Lectures on Derivatives,  
Algebra, English Composition,  
Herodotus and Thucydides, Elocution.  
Greek Testament,  
German.

III. TERM—Analytical Geometry, Chemistry, Course 1,  
{ Lysias' Orations, English Composition,  
Greek Testament, Elocution.  
French.

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\* Seniors may take any of the electives of the Junior year for corresponding terms.



## SOPHOMORE YEAR.

- |  |   |
|--|---|
| I. TERM—Chemistry, Course 2,<br>Rhetoric,<br>Xenophon's Memorabilia, | Linear Perspective,<br>English Composition,<br>Elocution. |
| II. TERM—Animal Physiology,<br>English Literature,<br>Demosthenes,   | History of Art,<br>English Composition,<br>Elocution.     |
| III. TERM—Botany,<br>English Composition,                            | English Versification,<br>Elocution.                      |

## ELECTIVES:

<i>English Oratory,</i>	<i>Higher Analytical Geometry,</i>
<i>Elocution,</i>	<i>Civil Engineering,</i>
<i>Chemistry, Course 3,</i>	<i>Anthropology.</i>

## JUNIOR YEAR.

- |                               |                                    |
|-------------------------------|------------------------------------|
| I. TERM—Mechanics,<br>French, | History of Education,<br>Orations. |
| Elocution.                    |                                    |

## ELECTIVE STUDIES:

- |                                |  |
|--------------------------------|--|
| <i>Æschylus and Sophocles,</i> | <i>Surveying,</i>                        |
| <i>German, Course 2,</i>       | <i>Differential Calculus,</i>            |
| <i>History, Course 6,</i>      | <i>Chemistry, Course 4,</i>              |
| <i>History, Course 7,</i>      | <i>Biology,</i>                          |
| <i>Parliamentary Law,</i>      | <i>Sociology.</i>                        |
| II. TERM—Physics,<br>Orations, | Electricity and Magnetism,<br>Elocution. |

## ELECTIVE STUDIES:

- |                                   |                              |
|-----------------------------------|------------------------------|
| <i>Euripides,</i>                 | <i>Advanced Composition,</i> |
| <i>German, Schiller,</i>          | <i>Advanced Algebra,</i>     |
| <i>French, Course 2,</i>          | <i>Integral Calculus,</i>    |
| <i>Hebrew,</i>                    | <i>Chemistry, Course 5,</i>  |
| <i>English Bible,</i>             | <i>Animal History,</i>       |
| <i>History, Course 4,</i>         | <i>Embryology,</i>           |
| <i>Logic,</i>                     | <i>Human Anatomy.</i>        |
| III. TERM—Astronomy,<br>Orations, | Geology,<br>Elocution.       |

## ELECTIVE STUDIES:

<i>Aristophanes,</i>	<i>American Civics,</i>
<i>German, Goethe,</i>	<i>History, Course 5,</i>
<i>French, Course 3,</i>	<i>Physics,</i>
<i>Hebrew,</i>	<i>Chemistry, Course 6,</i>
<i>English Bible,</i>	<i>Plant Histology,</i>

And subjects offered in the third term, Sophomore year.

**SENIOR YEAR.**

I. TERM—Psychology,

Literature,

Orations.

## \* ELECTIVE STUDIES :

*Demosthenes de Corona,*  
*German, Lessing,*  
*French, Course 4,*  
*Geology,*

*Anglo-Saxon,*  
*History, Course 1,*  
*Practical Astronomy,*  
*Chemistry, Course 7.*

II. TERM—Ethics,

History of Philosophy,

Orations.

## \* ELECTIVE STUDIES :

*Plato,*  
*German, Course 6,*  
*French, Course 5,*  
*Comparative Anatomy,*

*History, Course 2,*  
*Economics,*  
*Roman Law,*  
*Human Osteology,*

*Chemistry, Course 8.*

III. TERM—Theism,

Greek Literature,

Orations.

## \* ELECTIVE STUDIES :

*Greek Testament,*  
*German, Course 7,*  
*Constitutional Law,*  
*Zoölogy,*

*French, Course 6,*  
*Shakspeare,*  
*History, Course 3,*  
*Chemistry, Course 9.*

**III. THE SCIENTIFIC COURSE.***Leading to the Degree of Bachelor of Science.***FRESHMAN YEAR.**

I. TERM—{ *Geometry,*  
               { *Algebra,*  
               *German,*  
               *Cornelius Nepos,*

*Lectures on Hygiene,*  
*Lectures on the Essay,*  
*English Composition,*  
*Elocution.*

II. TERM—{ *Algebra,*  
               { *Trigonometry,*  
               *German,*

*Lectures on Derivatives,*  
*English Composition,*  
*Elocution,*

Sallust.

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\* Seniors may take any of the electives of the Junior year for corresponding terms.

III. TERM—Analytical Geometry,  
French,  
Ovid,

Chemistry, Course 1,  
English Composition,  
Elocution.

#### SOPHOMORE YEAR.

I. TERM—Rhetoric,  
Chemistry, Course 2,  
*Surveying*, or  
*Horace*,

Linear Perspective,  
English Composition  
Elocution.

II. TERM—English Literature,  
Animal Physiology,  
Advanced Algebra,

History of Art,  
English Composition,  
Elocution.

III. TERM—Botany,  
English Composition,

English Versification,  
Elocution.

#### ELECTIVES :

*English Oratory*,  
*Elocution*,  
*Chemistry*, Course 3.

*Higher Analytical Geometry*,  
*Civil Engiveering*.

#### JUNIOR YEAR.

I. TERM—Mechanics,  
History of Education,

Orations,  
Elocution.

#### ELECTIVE STUDIES :

*German*, Course 2,  
*French*, Course 1,  
*History*, Course 6,  
*History*, Course 7,  
*Parliamentary Law*,

*Differential Calculus*,  
*Surveying*,  
*Chemistry*, Course 4,  
*Biology*,  
*Sociology*.

II. TERM—Physics,  
Orations,

Electricity and Magnetism.  
Elocution.

#### ELECTIVE STUDIES :

*German*, Schiller,  
*French*, Course 2,  
*Hebrew*,  
*English Bible*,  
*History*, Course 4,  
*Logic*,

*Advanced Composition*,  
*Integral Calculus*,  
*Chemistry*, Course 5,  
*Animal Histology*,  
*Embryology*,  
*Human Anatomy*.

III. TERM—Astronomy,  
Orations,

Geology,  
Elocution.



## ELECTIVE STUDIES :

<i>German, Goethe,</i>	<i>American Civics,</i>
<i>French, Course 3,</i>	<i>History, Course 5,</i>
<i>Hebrew,</i>	<i>Physics,</i>
<i>English Bible,</i>	<i>Chemistry, Course 6,</i>

*Plant Histology,*

And subjects offered in the third term, Sophomore year.

## SENIOR YEAR.

I. TERM—Psychology,

Literature,

Orations.

## \* ELECTIVE STUDIES :

<i>German, Lessing,</i>	<i>History, Course 1,</i>
<i>French, Course 4,</i>	<i>Practical Astronomy,</i>
<i>Anglo-Saxon,</i>	<i>Geology,</i>
	<i>Chemistry, Course 7.</i>

II. TERM—Ethics,

History of Philosophy,

Orations.

## \* ELECTIVE STUDIES :

<i>German, Course 6,</i>	<i>Roman Law,</i>
<i>French, Course 5,</i>	<i>History, Course 2,</i>
<i>Economics,</i>	<i>Human Osteology,</i>
<i>Comparative Anatomy,</i>	<i>Chemistry, Course 8.</i>

III. TERM—Theism,

Greek Literature,

Orations.

## \* ELECTIVE STUDIES :

<i>German, Course 7,</i>	<i>Shakspeare,</i>
<i>French, Course 6,</i>	<i>Constitutional Law,</i>
<i>Zoölogy,</i>	<i>History, Course 3,</i>
	<i>Chemistry, Course 9.</i>

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\* Seniors may take any of the electives of the Junior year for corresponding terms.

## LECTURES.

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The following Courses of Lectures have been established. They are given immediately after the chapel exercises on each Monday morning.

### SENIOR CLASS.

- I. TERM—Professor Perrine on American Literature.  
Professor Hulley on Biblical Literature.
- II. TERM—The President on Philosophy.
- III. TERM—Professor Hamblin on Greek Literature.

### JUNIOR CLASS.

- I. TERM—The President on the History of Education.
- II. TERM—Professor Owens on Electricity and Magnetism.
- III. TERM—Professor Groff on Geology.

### SOPHOMORE CLASS.

- I. TERM—Professor Bartol on Linear Perspective.
- II. TERM—Professor Martin on the History of Art.
- III. TERM—Professor Perrine on English Versification.

### FRESHMAN CLASS.

- I. TERM—Professor Groff on Hygiene (half term).  
Professor Perrine on the Essay and Oration (half term).
- II. TERM—Professor Bartol on Derivatives.
- III. TERM—Professor Owens on Chemistry.

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## SPECIAL LECTURES.

- 1. A course of Lectures is given yearly on Sociology, by Heman Lincoln Wayland, D. D.
- 2. A Course of Lectures is given yearly on Social Ethics, by George Dana Boardman, D. D., LL. D.
- 3. A Course of Lectures is given annually on the Elements of Law, by Honorable Harold Murray McClure, A. M.

## DEPARTMENTS OF INSTRUCTION.

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The method of instruction in the College is partly by text-books and partly by lectures, according to the nature of the subject discussed. Each Professor has his individual mode of imparting knowledge, and this, in the result, is advantageous to the learner. In general, the aim is to discuss each subject as far as possible as the subject-matter requires, yet all branches are presented practically, comparatively, and historically, with the view of leading the student to the apprehension of the subject as a whole and in its organic relations, and not to fill the memory with the phraseology of a text-book. The range and character of the instruction can be gathered from the following account of the different departments.

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### I. ELOCUTION AND ORATORY.

#### INSTRUCTOR PHILLIPS.

The aim is to train the student to speak effectively in the pulpit or upon the platform or at the bar. All instruction is based on the principle that impression precedes and determines expression. Each student receives individual attention, during the first half of the course, in Elocution, during the latter half, in Oratory.

The Freshman Class has weekly recitations in Elocution during the first term. In the second term a prize contest, open to the young men, is held, and each member of the class receives private drill in preparation for it. In the third term each student is required to present two declamations.

In the first term the young men of the Sophomore Class receive private drill in preparation for the prize contest in declamation. In the second and third terms each student is required to present one declamation each term.

In the second term there will be a prize contest in declamation, open to the young ladies of the Freshman and Sophomore Classes, and each contestant will receive private drill in preparation for it.

Each member of the Junior Class pronounces two orations a term. A prize contest in oratory is held in the third term.

For the Senior Class the work is optional. A prize is offered for the best oration on Commencement day.

Special attention is given to Debate. Every student is urged to take an active part in the work of the Literary Societies. During the Junior year there are three public debates, the last of which is a prize debate.

**Oratorical Delivery.**—This course includes respiration, cultivation of the voice, pronunciation, and the principles of vocal and gestural expression. Theory will be secondary to practice. The student receives daily practice in the different modes of expression.

Elective to Sophomores. Third term, five hours.



**Extemporaneous Speaking.**—An optional course, also, is offered to the Juniors and Seniors in Parliamentary Law and Extemporaneous Speaking, the aim of which is to familiarize the student with parliamentary usage in theory and practice, and to develop by daily exercises ability in extemporaneous speaking.

Elective to Juniors and Seniors, first term.

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## II. THE ENGLISH LANGUAGE AND LITERATURE.

ENOCH PERRINE, A. M., LITT. D., PROFESSOR.

### I. PREPARATORY WORK.

It is assumed that the student has been thoroughly grounded in the essentials of Grammar; that he has mastered the elements of Rhetoric as presented in Williams's Rhetoric, D. J. Hill's Elements of Rhetoric, or any other of similar grade; and that he is able to express his thoughts clearly and concisely. Special attention is called to the required reading of English classics—a list is given on page 25—and it is presumed that by reading them the student has become more or less familiar with the leading forms of literary expression—the drama, the novel, the essay, the oration. This reading should not be done as a pastime, but under competent direction, with the end in view of making a scholarly acquaintance with the authors read; and it is desired that at least the authors suggested should be read, in order to secure uniformity of preparation among the members of the class.

### II. AIM AND METHODS.

The aim is to cultivate the power and habit of (1) accurate thinking, (2) correct and effective composition, (3) intelligent criticism of leading English authors, and to acquire (4) a scientific knowledge of the Origin and Development of the English Language. The methods are largely those known as Laboratory Methods, and in all cases where possible, the method of independent investigation is pursued. The course in Rhetoric is after the constructive rather than the critical method, although both methods are used as occasion demands. The course in English Literature pays less attention to the text-book than to a critical reading, in the class, of the representative work of each author studied. The student is urged to know, rather than to know about, English Literature; and a few authors are carefully studied, rather than many casually read.

### III. COURSES.

1. **Rhetoric.**—Genung's Practical Rhetoric and Genung's Rhetorical Analysis. Essays every week based on Lewes' Principle of Success in Literature. Analysis of themes, criticisms of plans, and exercises in all the forms of Composition discussed, are required. First term, Sophomore year, five hours a week.

2. **English Literature.**—Emery's Outlines of Notes on English Literature, or Pancoast's Introduction to English Literature, or Painter's Introduction to English Literature. The authors studied and the texts required are Shakspeare's As You Like It, Milton's Comus, Pope's Essays on Criticism, Wordsworth's Poems selected by Rolfe, Selections from Tennyson. Second term, Sophomore year, five hours a week. Courses in collateral reading will be as-

signed on application, the aim being to bring the student in contact with those representative authors who illustrate the great movements of their time.

3. **English Oratory.**—A careful study of the English Orators is made, as far as time permits, with reference to the peculiarities of each period, and especially to those of the present day. Baker's *Specimens of Argumentation*, Baker's *Primer of Argumentation*, and Bradley's *Selected Orations* will be pursued; and special work will be required in Quintilian's *Institutes* and Cicero's *Orator*. As this is one of the electives of the third term, there is opportunity for an extended course, and readings in the older oratory will be assigned, based upon Sears' *History of Oratory*. The Library has recently been enriched in this department. Third term, Sophomore year, five hours a week.

4. **Advanced Composition** for those who have taken courses 1 and 2. Text-books, Scott and Denney's *Paragraph-Writing*, Baker's *Principles of Argumentation*, Carpenter's *Advanced Composition*, Lamont's *Specimens of Exposition*, Brewster's *Specimens of Narration*, and Baldwin's *Specimens of Prose Description*. Second term, Junior year, five hours a week.

5. **English Versification.**—On the successive Monday mornings of the third term a course of lectures is given to the Sophomore Class on English Versification as shown in Tennyson, alternating with lectures on the Development of the English Language.

6. **Anglo-Saxon.**—Bright's *Anglo-Saxon Reader*. In addition to the literature of the period, special attention will be paid to the connection between the Old English and the Modern English, reference being had to Emerson's *History of the English Language*. First term, Senior year, for those who have taken courses 1 and 2.

7. **Shakspeare.**—A study of *Midsummer Night's Dream*, *Hamlet*, and *Tempest*, to show the development of the poet's mind and art. Third term, Senior year, for those who have taken courses 1 and 2, five hours a week. Constant reference is made to Dowden's *Primer of Shakspeare*, Dowden's *Shakspeare: his Mind and Art*, and the Variorum edition of Furness. Various Shakspearean clubs among the students afford opportunity for further practical work.

8. **The Essay and Oration.**—Lectures are given during the first term to the Freshmen on "The Essay and Oration," as an especial preparation for the practical work of the course, and supplementary to the work assumed to have been done in the preparatory schools.

9. **Essays and Orations.**—The Freshmen are required to present two essays in the first term, and three in the second and third terms, respectively; the Sophomores, three essays each term; the Juniors, two orations, and the Seniors one oration each term. The orations presented at the exercises of the Junior Exhibition and Commencement will be received as two of the required orations. Both Essays and Orations are criticised with the author, if necessary; and in all cases an analysis must be presented.

10. **American Literature.**—During the first term, lectures are given to the Seniors on Bryant, Hawthorne, Longfellow, Lowell, Whittier, and Holmes, as a preparation for those who desire more extended courses in the subject.



## HONOR COURSES IN ENGLISH.

11. **Chaucer**, his language and thought. A study of Middle English for those who have taken courses 1 and 2, two hours a week, with required thesis on an approved topic.

12. **Milton's Paradise Lost**.—R. C. Browne's *Milton*, and S. A. Brooke's *Life of Milton*, with required Theses, for those who have taken courses 1 and 2, two hours a week.

13. **Skeat's Specimens of English Literature, 1394-1579**, for those who have taken courses 1 and 2, two hours a week.

14. **Skeat's Piers the Plowman**, for those who have taken courses 1, 2, and 6, two hours a week.

15. **The Ormulum and The Ancren Riwele**, Sweet's edition, for those who have taken courses 1, 2, and 6, two hours a week.

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 III. THE LATIN LANGUAGE AND LITERATURE.

FRANK ERNEST ROCKWOOD, A. M., PROFESSOR.

LEO GUIDO CHARLES RIEMER, A. M., INSTRUCTOR.

Students in the Classical and in the Latin Philosophical course have four terms of required work in this department and seven of elective. Honor courses are offered in every term except the first term of the Freshman year.

In the prescribed work, the courses given and the methods of instruction employed are designed to give the student accuracy and facility in translating Latin into correct idiomatic English; the ability to read and appreciate the text in the original; a general acquaintance with the growth and development of the language and literature; a knowledge of the leading facts in Roman history; and some degree of familiarity with the life of the people. In the first term, the text is carefully studied, with special reference to forms and constructions, and considerable time is given to written translations and to oral and written composition. It is believed that in this way the faithful student can become thoroughly grounded in the elements of the language and be prepared to carry on his subsequent reading with pleasure and profit. After the first term, historical and literary topics are given greater prominence. Collateral reading is required in Liddell, Merivale, and Capes. Wilkins' *Primer*, supplemented by lectures, is made the basis of an outline course on Roman literature.

In the elective course a wide range of reading is offered. While particular lines of study have been marked out, different authors may be substituted in place of those announced in the catalogue. In all cases it is the intention to suit the work to the needs of the class. Provision is made for those who wish by varied reading to gain as large an acquaintance with the literature as possible and also for those who desire to make a specialty of Roman history or philosophy. Students intending to become teachers are aided and directed in their work with that object in view. In the elective courses, less time is devoted to formal recitations than is the case in the prescribed work, while more attention is given to the preparation of papers on assigned topics by members of the class and to



lectures and discussions by the instructor. Lectures are given on Roman Antiquities, and these, so far as possible, are illustrated by wall-pictures, plates, and photographs.

Candidates for the degree of Sc. B. take Latin during the Freshman year. For this purpose special courses in Nepos, Sallust, and Ovid have been established. Scientific students are thus given an opportunity to supplement their preparatory Latin and at the same time to receive the linguistic and literary training afforded by a year's drill in reading Latin authors. This work is under the charge of Instructor Riemer. The books used are Lindsay's Nepos, Herbermann's Sallust, Kelsey's Ovid.

The following courses, though designed more especially for students in the Arts and Philosophical courses, are open as electives to students in the Science Course, who may be qualified to pursue them :

COURSES : 1-4 required ; 5-11 elective.

1. **Cicero** : *De Senectute*. Livy : Book I. Review of special topics in Latin Grammar. Oral and written exercises in Prose Composition, based upon the text. Translation at sight and at hearing. First term, Freshman year.

2. **Livy** : Books XXI and XXII. Latin Prose Composition, based upon the text. Roman History : Special chapters in Liddell. Second term, Freshman year.

3. **Velleius Paterculus** : Roman History. **PLINY** : Selections from the Epistles. Translation at sight. Latin Prose Composition, based upon the text. Roman History : Capes' Early Empire. Third term, Freshman year.

4. **Horace** : Selections from the Satires, Odes, and Epistles. Prosody. Lectures on Roman life in the time of Augustus. Historical outlines of the Latin Language and Literature ; Wilkins' Primer ; Lectures. First term, Sophomore year.

5. **Juvenal** : Selected Satires. Translation at sight. Roman History, Capes and Merivale. Roman Antiquities ; Lectures. Third term, Sophomore year.

6. **Plautus and Terence** : Selected Plays. First term ; open to Juniors and Seniors ; alternating with 9.

7. **Roman Law** : Instruction is given by text-book (Morey's) and by lectures. Students are required to read on assigned topics and to make reports upon the same to the class. Second term ; open to Juniors and Seniors ; alternating with 10.

8. **Latin Inscriptions** : Egbert's Manual ; Allen's Remnants of Early Latin. Third term ; open to Juniors and Seniors ; alternating with 11.

9. **Tacitus** : *Agricola* ; *Germania* ; *Annals*. Large amounts are read at sight. Special topics in Roman History are assigned for study. First term ; open to Juniors and Seniors ; alternating with 6.

10. **Roman Philosophy** : This course is based upon the philosophical works of Cicero and Seneca. Second term ; open to Juniors and Seniors ; alternating with 7.

11. **Comparative Philology** : An introductory course ; text-book and lectures. Third term ; open to Juniors and Seniors ; alternating with 8.

## HONOR COURSES IN LATIN.

12. **Ovid:** *Metamorphoses*; *Tristia*; *Fasti*.
13. **Cicero:** Letters; *De Officiis*; *Brutus*.
14. **Quintilian:** Books I, X, and XII.
15. **Latin Poets:** Crowell's Selections; Merry's Fragments of Roman Poetry.
16. **Tertullian:** *The Apology*.

The following books are used: Rockwood's *Cicero de Senectute* and *Velleius Paterculus*; Lord's *Livy*; Hopkins' *Agricola* and *Germania* of Tacitus; Platner's *Pliny*; Smith's *Horace*; Lindsay's *Juvenal*; Frieze's *Quintilian*; Crowell's Selections from Latin Poets; Stickney's *Cicero de Natura Deorum*; Allen's *Tacitus' Annals*; Morey's *Roman Law*; Hurst and Whiting's *Seneca*; Allen and Greenough's *Ovid*; Holden's *Cicero de Officiis*; Fowler's *Plautus*; West's *Terence*; Kellogg's *Cicero's Brutus*; Tyler's *Histories of Tacitus*; Peck's *Suetonius*; March's *Tertullian and Latin Hymns*. Allen and Greenough's and Harkness' *Latin Grammars*; Harper's *Latin Dictionary*.

## IV. THE GREEK LANGUAGE AND LITERATURE.

THOMAS FRANKLIN HAMBLIN, A. M., PROFESSOR.

There are four terms of required work in Greek in the Classical Course, and five in the Greek Philosophical Course; while Greek may be taken as an elective during the entire Junior and Senior years. Besides the Elective Courses a number of Honor Courses are offered. The Freshman year is devoted to a thorough review of Accidence and Syntax, to the acquisition of a copious vocabulary, and to careful oral and written translations. In the Sophomore year Rhetorical Principles and Political History, and Antiquities receive more attention. In the Elective Courses a year of poetry alternates with a year of prose. A course of lectures on the Greek Poets is given, and collateral reading is required on various subjects.

Courses: 1-5 required; 6-12 elective.

1. **Homer:** *Odyssey*, Books 5-8. Review of verb forms and syntax of verbs. Epic forms and style. Word lists. Metre. First term, Freshman year.

2. **Herodotus:** Book 8. Inflection and syntax of nouns. Ionic dialect. Formation and derivation of words. Reading of portions of standard Greek Histories. Second term, Freshman year.

3. **Lysias:** Six orations. Special topics in Greek Syntax. Attic oratory. Translation at sight and hearing. Third term, Freshman year.

4. **Xenophon:** Two Books of the *Memorabilia*. The life of Socrates. The Socratic method. Reading at sight. First term, Sophomore year. Greek Philosophical Course.



5. **Demosthenes**: Olynthiacs and Philippics. History and Politics of the Macedonian period. Style of Demosthenes. Second term, Sophomore year.

6. **Æschylus and Sophocles**: Prometheus Bound and Œdipus Tyrannus. The drama, theatre, and metres. First term, Juniors and Seniors; alternating with 9.

7. **Euripides**: Medea. Religious influence of the poets. Second term, Juniors and Seniors; alternating with 10.

8. **Aristophanes**: The Frogs. Greek Comedy. The Age of Pericles. Third term, Juniors and Seniors; alternating with 11.

9. **Demosthenes**: De Corona. The oratory of Demosthenes from a literary and political point of view. Æschines against Ctesiphon at sight. First term, Juniors and Seniors; alternating with 6.

10. **Plato**: Apology and Protagoras. Philosophy and influence of Socrates. The Sophists. Extracts from the Memorabilia at sight. Second term, Juniors and Seniors; alternating with 7.

11. **New Testament Greek (A)**: The Gospel according to Luke. Hellenistic Greek. Second and third terms, Freshman year; one hour a week.

12. **New Testament Greek (B)**: The Acts of the Apostles. Burton's Moods and Tenses. Synonyms. Designed as a review for students intending to take a Theological course. Third term, Juniors and Seniors; alternating with 8.

#### HONOR COURSES IN GREEK.

13. **Xenophon**: The Symposium and Œconomicus. Sophomores and Freshmen. Winter terms in alternate years.

14. **Homer and Lucian**: Selections from each in alternate years. Freshmen and Sophomores, third term.

15. **Plato and Æschines**: The Phædo and the oration against Ctesiphon in alternate years. Juniors and Seniors, first term.

16. **Sophocles and the Lyric Poets**: Antigone and selections from the Lyric Poets in alternate years. Juniors and Seniors, second term.

#### TEXT-BOOKS.

Perrin's Odyssey, Books 5-8; Morgan's Select Orations of Lysias; Shuckburgh's Herodotus; Tyler's Olynthiacs and Philippics; Winan's Memorabilia; White's Œdipus Tyrannus; Wecklein's Prometheus; Allen's Medea; Green's Frogs; Dyer's Apology and Towle's Protagoras; D'Ooge's De Corona; D'Ooge's Antigone; Richardson's Æschines; Holden's Œconomicus; Winan's Symposium; Wagner's Phædo; Scrivener's Greek Testament; Goodwin's Greek Grammar; Goodwin's Greek Moods and Tenses; Liddell and Scott's Greek Lexicon, Seventh Edition; Oman's History of Greece; Burton's New Testament Moods and Tenses.



## V. THE HEBREW LANGUAGE.

LINCOLN HULLEY, PH. D., PROFESSOR.

It is the aim of this course to give the student a working knowledge of the Hebrew language.

1. **Elements of Hebrew.**—Inductive Method, Alphabet, Grammar, Forms, Vocabulary, Translation and Transliteration of Hebrew into English and English into Hebrew, Accents and Signs. Harper's Method and Manual.

Senior and Junior elective. Second term, five hours.

2. **Advanced Hebrew.**—Word Lists, Rapid Reading, Sight Translation, Elements of Advanced Grammar, Syntax, and Principles of Textual Criticism.

Senior and Junior elective. Third term, five hours.

3. **Cognate Languages.**—Instruction is offered in the elements of Arabic, Aramaic, Syriac, Assyrian, Ethiopic, and Talmudic Hebrew.

Open as an honor to Seniors and Juniors.

## VI. MODERN LANGUAGES.

FREEMAN LOOMIS, PH. D., PROFESSOR.

ELYSÉE AVIRAGNET, A. M., INSTRUCTOR IN THE ROMANCE LANGUAGES.

LEO GUIDO CHARLES RIEMER, A. M., INSTRUCTOR IN THE GERMAN LANGUAGE.

In the Classical Course the study of German begins with the third term of the Sophomore year, and may be continued in a daily recitation through the whole of the Junior and Senior years. In the same course the study of French begins with the first term of the Junior year, and may be continued in a daily recitation to the end of the Senior year. The first term in each study is required, the others are elective. As it is optional with students to take both electives, the schedule permits of thirteen terms of Modern Language study—six in French and seven in German—the recitations in all cases being for one hour five times a week.

Courses of study and text-books used in connection therewith are subject to change, but the following outline indicates the general scope of the work pursued.

## GERMAN.

1. **Elementary Course** (Classical Course only, required).—Whitney's Brief Grammar, with translation of German exercises into English. Review of Grammar, with translation of English exercises into German. Irregular verbs. Memorizing of selected passages. Writing from dictation. Storm's Sprechübungen. Translation of one hundred pages of Reader.

2. **Intermediate Prose Course.**—(Elective for all courses).—Devoted chiefly to the rapid reading of easy prose, with a view of acquiring an enlarged vocabulary and preparatory to the reading of the classics. Hauff's *Das Kalte Herz*. Riehl's *Der Fluch der Schönheit*. Storm's *Immensee*. Heyse's *l'Arrabbiata*. Hoffmann's *Historische Erzählungen*. Translation at sight. Balladen und Romanzen. Prose Composition.

**3. Schiller's Works.**—(Elective for all courses).—Maria Stuart, Wilhelm Tell, Jungfrau von Orleans, Wallenstein. Collateral reading in historical prose. Deutsche Lyrik. Prose Composition.

**4. Goethe's Works.**—(Elective for all courses).—Egmont, Iphigenie auf Tauris, Tasso. Collateral reading. Scientific German: Helmholtz's Über Goethe's Naturwissenschaftliche Arbeiten; Cohn's Über Bakterien; and other monographs. Prose Composition.

**5. Lessing's Works.**—(Elective for all courses).—Minna von Barnhelm, Nathan der Weise, Lessing's Prose. Collateral reading. Comedy. Prose Composition.

**6. Modern Authors.**—(Elective for all courses).—Selections from the works of Fouqué, Körner, Tieck, Heine, Freiligrath, Auerbach, Baumbach, Seidel, Scheffel. The Romantic School. Prose Composition.

**7. Advanced Prose Course.**—(Elective for all courses).—Designed to give facility in translating difficult prose. Meyer's Gustav Adolf's Page. Freytag's Doktor Luther. Lessing's Laocoön. Freytag's Technik des Dramas. History of German Literature. Prose Composition.

## FRENCH.

**1. Elementary Course.**—(Required).—Whitney's Brief Grammar with translation of French Exercises into English. Review of Grammar, with translation of English Exercises into French. Irregular verbs. Memorizing of selected passages. Writing from dictation. Storm's Dialogues Français. Translation of 150 pages of Reader.

**2. Intermediate Prose Course.**—(Elective for all courses).—Devoted chiefly to the rapid reading of easy narrative prose and modern dialogue, with a view to acquiring an enlarged vocabulary and preparatory to the reading of the classics. Souvestre: Un Philosophe sous les Toits. Alfred de Musset: Pierre et Camille. Feuillet: Le Roman d'un Jeune Homme Pauvre. Alfred de Vigny: Le Cachet Rouge. Translation at sight. Prose Composition.

**3. 17th Century.**—(Elective for all courses).—French Classics, verse and prose. Selections from the works of Corneille, Racine, Molière, Lafontaine, Mme. de Sévigné, Pascal, La Bruyère, La Rochefoucauld, Bossuet, Fénelon. Modern texts descriptive of the period. Prose Composition.

**4. 18th Century.**—(Elective for all courses).—Selections from the works of Voltaire, J. J. Rousseau, d'Alembert, Diderot, Mme. de Staël. Modern texts descriptive of the period. Scientific French. Prose Composition.

**5. 19th Century.**—(Elective for all courses).—Verse and Theater. Selections from the works of Lamartine, Alfred de Musset, Victor Hugo, Coppée, Augier, Dumas, Sardou, Labiche, Legouvé. Collateral reading. La Lyre Française. Prose Composition.

**6. 19th Century.**—(Elective for all courses).—Romance and Criticism. Selections from the works of Alfred de Vigny, Alfred de Musset, George Sand, Balzac, Mérimée, Daudet, H. de Bornier, Guy de Maupassant, Zola, Loti, Sainte-Beuve, Stendhal, Taine, Brunetiere, Tissot. History of French Literature. Prose Composition.



## SPECIAL COURSES FOR FRESHMEN.

## I. COURSES IN GERMAN.

INSTRUCTOR RIEMER.

Since the grammar is studied as a means to an end, the real object of study is the language, and the aim is the development of a sensitive *feeling*. The pupil learns the similarities between German and other languages and is taught that the sentence, not the word, is the real unit of language.

A study of the fundamental facts of grammar accompanied by prose composition, and exercises in the reading, memorizing, and repetition of connected discourse, comprises the work of the first term.

During the second term the work consists of the translation of easy prose and poetry, composition and conversation on the texts, and the memorizing of poetry.

## II. COURSES IN FRENCH.

INSTRUCTOR AVIRAGNET.

French may be pursued throughout the year as an extra study by students in any of the courses. The language is taught by the comparative method, affinities between the French language and the English, Latin, and Greek languages being constantly pointed out.

French Syntax is taught by oral examples and illustrations from readings. The grammar is taught from the language, and not the language from the grammar. Dictation exercises are given from "Whitney's Practical French."

As far as practicable, French only is spoken in the class-room. Extracts are read from the best French literature. Conversations are held in French on the readings, stories are related, and compositions prepared in French by the pupil.

The aim is to teach the language so that it can be spoken correctly.

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VII. MATHEMATICS.

WILLIAM CYRUS BARTOL, PH. D., PROFESSOR.

ALBERT BURNS STEWART, A. M., INSTRUCTOR.

WILLIAM ALBERT KAUFFMAN, A. B., ASSISTANT IN ASTRONOMY.

Courses 1-6 constitute a group in Pure Mathematics, designed as a preparation to the required courses in Mechanics, Physics, and Astronomy, and as a sufficient basis for the electives in Higher Mathematics. They are required of every candidate for a degree.

Courses 7-10 constitute a group in Higher Mathematics intended for those who wish to make mathematics a principal subject of study. Course 7 is required of Sophomores in the Latin Philosophical, and Scientific courses, and is elective to Juniors in the Classical and Greek Philosophical courses. Courses 8-10 are open to all who have completed courses 1-6.

Courses 11-14 are in Applied Mathematics; course 11 is required of all candidates for a degree; course 11 is open to all who have completed courses 1-6. Courses 13 and 14 are elective.



1. **Solid Geometry.**—The course includes the geometry of solids with plane surfaces, the cone, the cylinder, the sphere, and the spherical triangle. Six weeks are given to the subject. Freshman year, first term, five hours.

2. **College Algebra.**—The topics are indeterminate equations, ratio and proportion, variation, progressions, the binominal theorem, convergency of series, undetermined coefficients, logarithms, permutations, and combinations. Eight weeks are given to the subject. Freshman year, first term, five hours.

3. **Derivatives.**—The course is intended to give to those who do not wish to specialize in mathematics an idea of the methods of the calculus. It is supplementary to the course in College Algebra and affords concise proofs of its most important theorems. Freshman year, second term, one hour.

4. **Trigonometry.**—The course includes Plane Trigonometry, with application to problems in mensuration and surveying, and Spherical Trigonometry, with some application to problems in astronomy. Freshman year, second term, five hours.

5. **Analytical Geometry.**—The student is taken through the elementary properties of the right line, the circle, and the conic sections. The course is intended to give a clear conception of the methods of Cartesian Analysis rather than an extensive knowledge of its results. Freshman year, third term, five hours.

6. **Linear Perspective.**—A course of twelve lectures, designed to familiarize the student with the principles of perspective, and to give him an insight into their manifold applications. Sophomore year, first term, one hour.

7. **Advanced Algebra.**—The course includes infinite series, the theory of equations, and the theory of determinants. Second term, five hours.

8. **Advanced Analytical Geometry.**—The course includes the geometry of three dimensions, surfaces of revolution, and higher plane curves. Third term, five hours.

9. **Differential Calculus.**—The course includes the development of functions into series, evolution of undetermined forms, determination of maxima and minima, and applications to the theory of curves. First term, five hours.

10. **Integral Calculus.**—The course covers methods of integration by parts, by substitution, by successive reductions, and by series. Applications to problems of geometry and mechanics are made. Second term, five hours.

11. **Astronomy.**—The aim is to treat Astronomy not merely as an application of mathematics, but as a science, which forms an essential part of a finished education. The subject is taught by text-book, with illustrations in the observatory, and lectures. There is free use by the students of the ten-inch equatorial telescope. Junior year, third term, five hours.

12. **Practical Astronomy.**—Observations are made for time and to determine the errors of the transit instrument. The use of the micrometer is taught, and the value of one revolution of its screw is determined experimentally. Observations are made for azimuth, and for latitude and longitude. First term, five hours.

13. **Surveying.**—In compass and transit surveying a careful study of the necessary instruments is made. The student is taught their adjustments and the

best methods of reducing their errors. He is required to do considerable practice work in the field. Such tables and methods are furnished him as will enable him to undertake the retracing of old lines. The system practiced by the government in the survey of public lands is fully set forth. Directions are given for running contours and sketching topography. First term, five hours.—INSTRUCTOR STEWART.

**14. City Surveying and Civil Engineering.**—Town sites are located and plotted; permanent reference points and bench-marks are established; grades and sewers are determined, and property lines staked out. Instruction is given in the theory of railroad curves, switches, and turn-outs. A corps is organized, which makes a preliminary survey and locates a cross-country railroad. For this the grade and ditch stakes are set and the curves determined, specifications are drawn up and estimates made of the line surveyed. Third term, five hours.—INSTRUCTOR STEWART.

The following books are used: Bartol's Geometry, Wells' College Algebra, Wentworth's Plane and Spherical Trigonometry, Nichol's Analytical Geometry, Hardy's Calculus, Carhart's Plane Surveying, Olmsted's College Astronomy, Greene's Practical Astronomy.

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## VIII. PHYSICS.

WILLIAM GUNDY OWENS, A. M., PROFESSOR.

The Department of Physics offers five courses, three of which are required of all candidates for a degree; one is elective, and one is an honor course.

**1. Mechanics of Solids, Liquids, and Gases.**—This course consists of lectures, demonstrations, and recitations, appropriately illustrated.

Required. Junior year, first term, five hours.

**2. Sound, Light, and Heat.**—Study of text-book, lectures, and experiments.

Required. Junior year, second term, five hours.

**3. Magnetism and Electricity.**—Lectures with experiments.

Required. Junior year, second term, one hour.

**4. Magnetism and Electricity.**—An experimental course, open as an elective to those who have taken courses 1 and 2. Experiments are made by the students, and, where practicable, absolute measurements are taken.

Elective. Third term, five hours.

**5. Students who desire, may take an Experimental Course in the Laboratory,** devoting about five hours a week to laboratory work. Such work is taken in addition to the required class-room work, and if a grade of nine or more is attained, the work is credited as an "Honor Study."

Students who have completed the general course in Physics and the experimental course, may take up special lines of investigation under the direction of the Professor.



## IX. CHEMISTRY.

WILLIAM GUNDY OWENS, A. M., PROFESSOR.

ROBERT BURNS McCAY, A. B., ASSISTANT.

1. **Lectures** are given during the third term of the Freshman year to acquaint the student with the scope and aims of chemical study, and by suitable experiments to explain the value of laboratory work and the methods used.

2. **Descriptive Chemistry** is taught by text-book and lectures. The object of the course is to give the student a general knowledge of the most common elements—their sources, use, compounds, and behavior towards other elements and compounds, and to drill the student in writing formulæ and solving chemical equations. To accomplish this, each student will be expected to spend at least five hours each week in the Laboratory, studying the characteristics and reactions of the elements and their compounds, and performing the more simple experiments outlined in the text and lectures. Notes will be kept by each student, describing the experiment and giving the equation which represents the reactions that take place. The Professor will, from time to time, examine the note-books, and make such suggestions as he thinks helpful.

3. **Analytical Chemistry** is open to those only who have completed Descriptive Chemistry. In this course, students examine a number of known solid and liquid substances, noting their reactions. They are then given unknown substances, several in one mixture, which they are required to determine. The course is completed when fifty unknown mixtures have been determined and correctly reported.

4. **Quantitative Analysis** comprises those determinations which will be most useful to the general student. It also offers to the specialist an opportunity to become acquainted with the methods of separation and manipulation. It is open to those who have taken General and Analytical Chemistry.

5. **Organic Chemistry**.—The simplest of the Paraffin and Benzene series and their derivatives are studied. The theoretical basis is kept constantly in view, while the preparation of the simplest and most characteristic compounds prevent the work from becoming simply an act of memory.

6. **Agricultural Chemistry**.—In this course the laws which underlie the Science of Agriculture are considered and illustrated.

7. **Ultimate Organic Analysis and Analysis of Fertilizers**.—Such determinations are made as will best illustrate the methods used and give the student practice in the manipulation of apparatus.

8. **Toxicology and Medical Chemistry** consists of the detection of the most common poisons, the symptoms of poisoning, etc., with practice in the detection of impurities in foods and drugs.

9. **Water Analysis** includes the study of potable and mineral waters, with the quantitative determination of their ingredients.

10. **Chemical Philosophy and Theories** is designed to bring before the



student the laws and theories upon which modern chemistry is based in such a way that he can get a complete view of the subject.

Any of the above elective courses can be taken as honors.

THE CHEMICAL AND PHYSICAL SOCIETY holds meetings bi-weekly to discuss questions in Chemistry and Physics.

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## X. ORGANIC SCIENCE.

GEORGE G. GROFF, M. D., LL. D., PROFESSOR.

NELSON FITHIAN DAVIS, SC. M., INSTRUCTOR.

In this department it is the constant aim to teach students how to interpret nature. The student is guided in his investigations by lectures and laboratory manuals.

In courses 3, 4, 5, 6, 8, 9, and 11 the student should reserve on his program about ten hours each week for laboratory exercises.

Medical students who desire to complete their professional studies in three years, should take courses 1 to 9. A small fee is charged in all the laboratory courses.

1. **Hygiene.**—A course of six lectures on the Elements of Personal Hygiene. First term, Freshman year. Required.

2. **Animal Physiology.**—The principles of Human and Comparative Physiology, taught by lectures and illustrated by a life-size French manikin, skeletons, and charts. Second term, Sophomore year, five hours. Required.

3. **Methods in Histology and Embryology.**—This course consists in fixing, dehydrating, injecting, staining, cutting, and mounting animal and vegetable tissue.

4. **Normal Histology and Embryology.**—Text-book recitations, lectures, and laboratory work. This course should be preceded by courses 2, 3, 6, and 7.

5. **Human Osteology and Comparative Anatomy.**—Text-book recitations, lectures, and laboratory work. This course should be preceded by courses 2, 3, 4, 6, and 7.

6. **Human Anatomy.**—Recitations and dissections. This course should be preceded by courses 2, 3, 4, 6, and 7.

7. **Biology.**—Recitations, lectures, and laboratory work. This course should be preceded by courses 2 and 7.

8. **Zoölogy.**—Recitations, lectures, and laboratory work. This course should be preceded by courses 2 and 9.

9. **Sanitary Science.**—A course of ten lectures on the Elements of Sanitary Science. Sophomore year.

10. **Botany.**—Recitations, lectures, and laboratory work. Third term Sophomore year. Required.

11. **Plant Histology.**—Lectures, recitations, and laboratory work. Course 9 must precede this course.

**12. Dynamical Geology.**—A course of twelve lectures. Third term, Junior year. One hour. Required.

**13. Mineralogy and Geology.**—Recitations, lectures, and laboratory work. The first part of the term will be devoted to Mineralogy; the second part to Geology. First term, Senior year. Elective.

**14. Materia Medica.**—A course in this subject is offered to students preparing for the study of Medicine.

#### HONOR COURSES.

**15. Human Physiology.**

**16. Systematic Botany.**

**17. Mineralogy and Lithology.**

**18. Economic Botany.**

The NATURAL HISTORY SOCIETY has been formed to encourage original work in the organic sciences. It is open to all professors and students of the college, and holds meetings bi-weekly.

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### XI. ECONOMICS AND SOCIAL SCIENCE.

**1. Economics** is considered as the science of exchanges, and is followed into its practical applications, in manufacturing, banking, national credit, and international commerce, with illustrations from well-known facts and current events. It is insisted that any stable system of economy must find its foundation in ethical principles. First studied as an abstract science, it is then taken in connection with Sociology as modified by the circumstances under which its principles are applied. Second term, Senior year, five hours a week.

There will be held daily recitations from Ely's Outlines of Economics and Marshall's Principles of Economics, supplemented by lectures, and by debates on the part of the class, and ample opportunity is afforded for original investigation, the Library being especially rich in this department.—PROFESSOR PERRINE.

**2. American Constitutional Law** is offered as an elective to Juniors and Seniors in alternate years, third term. The work consists not so much in a study of the Constitution itself as in a study of the law that has grown out of the Constitution during a century of use. Cooley's Elements of Constitutional Law is made the basis of class-room work, while special topics are assigned for individual study and subsequent discussion in the class-room. Reference is made to Hare's American Constitutional Law, Baker's Annotated Constitution of the United States, Pomeroy's Constitutional Law, Cooley's Constitutional Limitations, and Constitutional History as seen in American Law.—PROFESSOR HAMBLIN.

**3. American Civics** is offered, as an elective, to Juniors and Seniors in the third term, alternating with Constitutional Law. The aim is to study the practical workings of the State and National governments in their various departments. Bryce's American Commonwealth, Vol. I, is used as a text-book. Special topics are assigned for individual study and report to the class.—PROFESSOR HAMBLIN.



4. **Roman Law** may be taken as an elective in the second term of the Senior year. The subject is treated historically. Morey's Roman Law forms the basis of the work. The text-book is supplemented by lectures and collateral reading.—  
PROFESSOR ROCKWOOD.

5. **Sociology**.—An honor course in Sociology is offered by Dr. Wayland. This will consist (1) of a report of the lectures of Dr. Wayland; (2) of the reading of some work on Sociology with analysis of its subject-matter; (3) of a thesis of not less than a thousand words based on field work done by the student.

## XII. MEDIÆVAL AND MODERN HISTORY.

LINCOLN HULLEY, PH. D., PROFESSOR.

A knowledge of ancient history is required for admission, and special courses in the histories of ancient Greece and Rome are given in connection with the study of the classical literatures. The Mediæval and Modern History courses have been planned to provide the general student with the essential data of human progress; and the special student with the fullest equipment required for advanced work in the best Graduate Schools.

To accomplish this the best text-books, large library facilities, and the most successful methods of college history teaching are used. The student is trained to grasp the leading facts of history, to trace the causal relations of events, to exercise the historical imagination, and to compare and criticize authors. To secure vivid impressions the student makes maps, chronological lists, and black-board analyses; to develop expression essays, reports, and discussions are required; to give reality to the study frequent attention is called to history in the making—local institutions, characters, geography, and events. The work is further supplemented by lectures on methods and sources of historical research, and the relation of history to auxiliary subjects. Six terms of honor work have been arranged for students who desire additional opportunities. Courses 2 and 4, 3 and 5, 6 and 7 alternate annually.

The following courses are offered:

1. **Mediæval Europe**. (1) Subjects:—The Germanic Invasions, Roman Christianity, Rise of Mohammedanism, German Ideas of Law, The Age of Charlemagne, Foundation of Mediæval Europe, Feudal System, Rise of the Papacy, its Degradation and Restoration, the Struggle between the Empire and the Papacy, Domination of the Papacy, Society and Intellectual Life of the Middle Ages. (2) Texts:—The class will use Thatcher and Schwill's Europe in the Middle Ages, and will also read extensively in Emerton's Introduction to the Middle Ages, Emerton's Mediæval Europe, Milman's Latin Christianity, Bryce's Holy Roman Empire, Duruy's Middle Ages, and in Neander, Kurtz, Schaff, Church, Adams, Stille, Oman, Guizot, and others.

Senior Elective. First term. Five hours.

2. **Modern Europe**, A. D. 1350–A. D. 1648. Subjects:—Decline of Feudalism, Revival of Learning, Rise of Modern Institutions and States, The Protestant Reformation, The Thirty Years' War, The Counter Reformation and the Catholic



Opposition in the Inquisition, Jesuit Order, and Council of Trent. The class will use the texts of Seebohm and Gardner in the Epochs series.

Senior and Junior Elective. Second term. Five hours.

**3. Modern Europe, A. D. 1650—A. D. 1870.** Subjects:—The Age of Louis, The Dutch Republic, Peter the Great, The Rise of Prussia, The Decline of Austria, The French Revolution, The Unification of Italy, and The New German Empire. The class will use the texts of Langman and Gardner.

Senior and Junior Elective. Third term. Five hours.

**4. History of English Saxon Civilization, the D**  
ical, Religious, Social, Ind  
time. The classes will use  
use for reference the Speci  
man, Seebohm, and McCa  
gomery.

Senior and Junior El

**5. Constitutional Hi**  
the development of Englis  
Witenagemot, Norman Le  
Clarendon, Magna Charta  
Tudor Monarchy, Strife b  
Supremacy of the House o

Senior and Junior El

**6. American Coloni**  
pansion—Independence.  
conditions; Spanish, Fren  
Peru; The Making of  
Progress, and Results of tl  
to contemporaneous histo

Senior and Junior El

**7. Constitutional Hi**  
Analysis, and Interpretati  
in the following subjects:  
Sedition Laws; Kentuck  
Embargo and Non-Interc  
vention; Missouri Comp  
Bank Veto; Nullification  
in the Territories; War c

Texts:—Von Holst,  
Johnston, Bryce, America  
of Washington, Hamilton

Senior and Junior El

**8. Parliamentary I**  
(1) to familiarize the clas

to acquire the leading principles of Common and Constitutional Law; (3) to pursue a definite course of historical reading in relation to the work.

Senior and Junior Elective. Fall term. Five hours.

## To Normal School Graduates.

Recognizing the excellent work done by the Pennsylvania State Normal Schools and in order to encourage graduates of these schools to pursue a collegiate course of learning, Bucknell University has made arrangements by which the Normal School diploma will be accepted in lieu of an examination. For further information, address

WILLIAM C. GRETZINGER, Registrar,  
Lewisburg, Penna.



## HONOR COURSES IN HISTORY.

1. **Political Philosophy.** Wilson's "The State."
2. **Philosophy of History.** Droysen's Outlines.
3. **Political Institutions of the United States.** Bryce's "Commonwealth."
4. **Diplomatic History of the United States.** Snow.

lements.

## TURE.

ct methods of Bible study,  
er of Biblical Literature.  
f Harper's "Introductory  
h courses will be supple-  
ne year.

t Library; the Bible in its  
vilization imbedded in it;  
ns; its literary forms; the  
, style, contents, teaching,  
dy; historical methods of  
results of Bible study; the  
nd Mission; and the Bible  
d Civilization.

phcey; the contents of  
historical situations in the  
ples and essentially divine  
a, Isaiah, and Jeremiah;  
al teachers and preachers;  
this course is to give a life-  
essage. Senior and Junior

udy includes: The periods  
alter; the special religious  
ptions, versions, contents,  
f their composition; their  
turgical elements, and the  
accabæan, Pilgrim, Halle-  
; and the Psalms of the

## TO LAW STUDENTS.

For Persons preparing for the bar, Bucknell offers many required and elective studies valuable for that class of students. Among these are the following:

Rhetoric, English Literature, English Oratory, Advanced Composition, Oratorical Delivery, Extemporaneous Speaking, Psychology, Ethics, Philosophy, Economics, American Constitutional Law, American Civics, Sociology, Parliamentary Law, Honor Course in Blackstone, Roman Law, Medieval History, Modern Europe, A. D. 1350 to A. D. 1648; Modern Europe, A. D. 1650 to 1870; History of England, Constitutional History of England, American Colonial History, American Constitutional History, Surveying, Latin, 12 courses; Greek, 12 courses; French, 6 courses; and German, 7 courses.

For further information address

WILLIAM C. GRETZINGER, REGISTRAR,  
LEWISBURG, PA.

ALL OF THE WISDOM BOOKS WILL BE CAREFULLY STUDIED. Senior and Junior elective. Second term. Five hours.

3. **The Founding of the Church.**—The texts will be the Acts of the Apostles. The subjects will be the Church's inception, formal organization, initial



Opposition in the Inquisition, Jesuit Order, and Council of Trent. The class will use the texts of Seebohm and Gardner in the Epochs series.

Senior and Junior Elective. Second term. Five hours.

**3. Modern Europe, A. D. 1650—A. D. 1870.** Subjects:—The Age of Louis, The Dutch Republic, Peter the Great, The Rise of Prussia, The Decline of Austria, The French Revolution, The Unification of Italy, and The New German Empire. The class will use the texts of Langman and Gardner.

Senior and Junior Elective. Third term. Five hours.

**4. History of England.** Subjects:—Invasions and Early Settlements, Saxon Civilization, the Danish Invasion, The Norman Conquest, and The Political, Religious, Social, Industrial, and Literary Developments down to the present time. The classes will use Gardner's History of England as a text-book, and will use for reference the Special Histories of Gardner, Hale, Creighton, Morris, Freeman, Seebohm, and McCarthy, and the General Histories of Green and Montgomery.

Senior and Junior Elective. Second term. Five hours.

**5. Constitutional History of England.** The aim of this course is to trace the development of English Constitutional Law. Subjects:—Saxon Origins, The Witenagemot, Norman Legislation, Parliamentary Organization, Constitution of Clarendon, Magna Charter, Struggle for Charters, Rise of the Commons, The Tudor Monarchy, Strife between King and Parliament, the Puritan Revolution, Supremacy of the House of Commons. The class will use Taylor's text.

Senior and Junior Elective. Third term. Five hours.

**6. American Colonial History.** Subjects:—Discovery—Settlement—Expansion—Independence. Colonial charters, conventions, government, and social conditions; Spanish, French, and English communities; Conquest of Mexico and Peru; The Making of New England; Relations to the Old World; Causes, Progress, and Results of the Revolutionary War. Special attention will be given to contemporaneous history of Europe during this period.

Senior and Junior Elective. First term. Five hours.

**7. Constitutional History of the United States.** Subjects:—Formation, Analysis, and Interpretation of the Constitution. Its interpretation as expressed in the following subjects: Hamilton's Bank; Assumption of Debts; Alien and Sedition Laws; Kentucky and Virginia Resolutions; Louisiana Purchase; Embargo and Non-Intercourse; Burr's Treason; War of 1812; Hartford Convention; Missouri Compromise; Tariff Legislation; Indian Affairs; Jackson's Bank Veto; Nullification; Currency Measures; Annexation of Texas; Slavery in the Territories; War of Secession; Reconstruction.

Texts:—Von Holst, Hildreth, Schouler, McMaster, Fiske, Hart, Wilson, Johnston, Bryce, American Statesman Series, Annals of Congress, Life and Works of Washington, Hamilton, Jefferson, Adams, Clay, Webster, Calhoun, Seward, etc.

Senior and Junior Elective. Fall term. Five hours.

**8. Parliamentary Law and Common Law.** The aim of this course is: (1) to familiarize the class with parliamentary usage in theory and practice; (2) to acquire the leading principles of Common and Constitutional Law; (3) to pursue a definite course of historical reading in relation to the work.

Senior and Junior Elective. Fall term. Five hours.



## HONOR COURSES IN HISTORY.

1. **Political Philosophy.** Wilson's "The State."
2. **Philosophy of History.** Droysen's Outlines.
3. **Political Institutions of the United States.** Bryce's "Commonwealth."
4. **Diplomatic History of the United States.** Snow.
5. **Special Epochs of History.**
6. **Elementary Studies in Law.** Robinson's Elements.

## XIII. BIBLICAL LITERATURE.

PROFESSOR HULLEY.

The aim of this department is to impart (1) correct methods of Bible study, and (2) an appreciation of the forms and subject-matter of Biblical Literature. The language will be studied inductively, by the aid of Harper's "Introductory Methods and Manual," and Grammar. The English courses will be supplemented by a series of lectures extending throughout the year.

The topics to be treated are as follows:

**Lectures.**—The Bible as a Classic; the Bible as a Library; the Bible in its Formation; its influence on early civilization; the civilization imbedded in it; its essential ideas and their development; its institutions; its literary forms; the names, order, number, date, destination, purpose, plan, style, contents, teaching, and history of selected books; methods of Bible study; historical methods of interpretation; spirit, motive, present condition, and results of Bible study; the distinctive purpose of the Bible; its Divine Origin and Mission; and the Bible as central and vital in English History, Literature, and Civilization.

1. **Prophecy.** Subjects:—The nature of prophecy; the contents of prophecy; events, stories, sermons, predictions; the historical situations in the various periods of prophecy; the underlying principles and essentially divine elements of prophecy; the personality of Amos, Hosea, Isaiah, and Jeremiah; the prophets as statesmen, reformers, theologians, ethical teachers and preachers; prophetic historiography and literature. The aim of this course is to give a life-like realism to the prophets' personality, age, and message. Senior and Junior elective. Second term. Five hours.

2. **Psalms and Wisdom Literature.**—This study includes: The periods and development of Psalmody; the growth of the Psalter; the special religious revivals producing it; its divisions, authors, superscriptions, versions, contents, and the order of the Psalms; the historical occasion of their composition; their various literary forms; their editorial, musical, and liturgical elements, and the following group: The Davidic, Korahite, Asaphic, Maccabæan, Pilgrim, Hallelujah, Coronation, Elegiac, Imprecatory, Alphabetic; and the Psalms of the Exile, the Restoration, and the Later Temple.

All of the Wisdom books will be carefully studied. Senior and Junior elective. Second term. Five hours.

3. **The Founding of the Church.**—The texts will be the Acts of the Apostles. The subjects will be the Church's inception, formal organization, initial

activity, internal life, missionary enterprise, and the establishment of churches. Senior and Junior elective. Third term. Five hours.

4. **The Pauline Epistles.**—The historical origin, plan, purpose, materials, and characteristics of each; their chronological order; the development and progress of their teachings; and the life, experiences, and views of their author will be studied. Senior and Junior elective. Third term. Five hours.

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## XIV. LOGIC AND ANTHROPOLOGY.

WILLIAM EMMETT MARTIN, A. M., PROFESSOR.

1. **Elementary Logic**, optional to Juniors, is offered in the second term. This course is designed to utilize (1) the valuable discipline inherent in the study of the science of thought; (2) the practical application of its principles in the analysis of arguments and the conduct of the search for truth; (3) the knowledge of the historical development of the science in the hands of its great masters, and (4) its valuable aid as preparatory to the study of Philosophy and Ethics.

The Manual of Professor Minto will be supplemented by readings in the standard authors, with constant praxis in the detection of fallacious arguments.

2. **Logical Theories**, an advanced course in the history and criticism of Logic, ancient and modern, is offered as an honor study, in the third term of the Junior year, to such students as shall have taken course 1.

3. **Descriptive Anthropology** is given to the Sophomore class during the third term. It is designed to prepare the student for the appreciative study of Ethnology and Languages, of Archæology and History. Tylor's text-book serves as the basis of study, with readings and discussions on the chief authorities and current publications.

4. An honor course in **Anthropology** with special reference to the origin and development of Art, Science, and Religion, is offered to Juniors and Seniors in the first term.

5. **Sociology.**—A course in Sociology, elective to Juniors and Seniors, will be given in the fall term. The aim will be to furnish such expositions of social relations and theories as will serve the general purposes of educated citizens.

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## XV. MENTAL AND MORAL PHILOSOPHY.

THE PRESIDENT.

The studies in this department embrace Psychology, Philosophy, Education, Ethics, and Theism. The method of instruction is by text-book, recitation, expository lectures, class discussions, and collateral reading. Written examinations and theses on assigned subjects test and deepen the student's knowledge. The gift recently, by friends, of a thousand dollars worth of books in this department enables the students to pursue extensive courses of collateral reading. In this

way the monographic treatment of text-book study is broadened, and the student is trained to become an investigator.

Besides the following courses offered by the Professor in charge, courses are also offered by the Professor of Greek in the philosophy and religious ideas of the Greeks, as shown in Plato's *Apology*, and in Greek Philosophy, in connection with the study of the *Phædo*; and by the Professor of Latin, in the Stoic, Epicurean, and Academic systems of Philosophy, in connection with the study of *Cicero De Natura Duorum*, and in Ancient Morals, in connection with the study of Seneca.

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SCHEDULE FOR 1896-'97.

1. **Psychology.** Höffding.  
Reading in Ladd's *Physiological Psychology*, James' *Psychology*.  
Porter's *Human Intellect* and other authorities.  
Seniors. First term. Five hours.
2. **James' Psychology.** Honor course.  
Seniors. First term.
3. **History of Education.** Lectures.  
Juniors. First term. One hour.
4. **Ethics.** Robinson. Lectures and Readings.  
Seniors. Second term. Four hours.
5. **History of Philosophy.**  
Lectures, Theses, and Readings.  
Seniors. Second term. Two hours.
6. **Philosophy of Education.** Rosenkranz. Honor course.  
Seniors. Second term.
7. **Physiological Psychology.** Ladd. Honor course.  
Seniors. Second term.
8. **Philosophy of Religion.** Diman's *Theistic Argument*, and Lectures.  
Seniors. Third term. Five hours.
9. **Modern Philosophy.** Bowen. Honor course.  
Seniors. Third term.
10. **Grundzüge der Psychologie.** Lotze. Honor course.  
Seniors. Third term.



## LIBRARIES AND APPARATUS.

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### THE LIBRARIES AND READING-ROOM.

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*Librarian* : PROFESSOR WILLIAM E. MARTIN, A. M.

*Assistant* : MISS MARY E. BROWN.

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**The College Library.**—The general library contains about seventeen thousand volumes, besides several thousand pamphlets. The reading-room is connected with the library, and offers facilities for reading, studying, and writing. During term-time both are open forenoon, afternoon, and evening of each day, Sundays and holidays excepted, and both are maintained at the expense of the University, without extra charge to students. Students of all departments have free access to the shelves, and may draw two books at one time and retain them for two weeks, with the privilege of one renewal, if desired.

The library has entirely outgrown its former accommodations, but the completion of the new Laboratory building has left vacant the large adjoining room, which is now used as the young ladies' library and study hall. It has recently been supplied with appropriate furniture, by the kindness of several friends of the University. Particular mention should be made of the gift of Joseph Moore, Jr., A. M., of Philadelphia.

For greater convenience of students and instructors, collections of special technical books are also kept in the Laboratories of the Physical and the Organic Sciences, and in the Astronomical Observatory.

The library is regarded as a working laboratory for all departments of instruction, students being constantly cited to it in class-room work. In this way, while answering the purpose of general culture, it supplements in great measure, the monographic treatment of text-book study, and the student is trained under competent guidance to become an investigator. The resulting practical acquaintance with books and bibliography proves a valuable part of liberal education.

The preparation of the Card Catalogue is well under way, and it is expected that it will be completed up to date, by the end of the collegiate year. By its aid all the resources of the library on any given subject will be at once available.

Of the additions during the year, eight hundred volumes were contributed by William J. Coxey, A. M., of Camden, N. J., towards the "Coxey Alcove of Biblical and Religious Literature," which now contains twelve hundred volumes.

Other valued contributions have been made during the year by the following friends:

American Baptist Publication Society, L. E. Atkinson, Esq., Prof. W. C. Bartol, Ph. D., Wm. G. Bird, L. T. Chamberlain, Esq., Colby University Library Wm. J. Coxey, A. M., M. W. Cramer, Capt. W. H. Crotzer, Miss M. Crotzer, T. A. Davies, H. E. Deats, T. J. Dowling, Prin. T. A. Edwards, A. M., W. H. Egle, M. D., Thos. Egleston, LL. D., V. B. Fisk, Hon. B. K. Focht, Prof. Wm. Frear, Ph. D., Phoebe Earle Gibbons, Rev. W. F. Gibbons, W. C. Gretzinger, Ph. B.,

Prof. G. G. Groff, M. D., Prof. T. F. Hamblin, A. M., Pres. J. H. Harris, LL. D., W. T. Harris, LL. D., Commissioner of Education, Asst. Eng. C. H. Hayes, U. S. N., S. B. Horne, A. B. Howard, Jr., Chas. H. Hunter, Esq., G. C. Kelly, W. L. Kurtz, B. S., Rev. D. P. Leas, A. M., J. P. Leslie, D. E. Lewis, W. T. Lewis, C. A. Lindemann, Craige Lippincott, Esq., Hon. Thad M. Mahon, C. H. McCormick, Rev. F. G. McKeever, A. M., D. B. Miller, Esq., Geo. Barron Miller, A. M., Joseph Moore, Jr., A. M., Lucas Moore, C. H. Morse, Prof. W. G. Owens, A. M., H. V. Parsall, Prof. E. Perrine, Litt. D., Reformed Ch. Board of Publication, Prof. F. E. Rockwood, A. M., Rev. W. H. Schuyler, T. B. Searight, J. Y. Sinton, Smithsonian Institution, Geo. M. Spratt, D. D., Mrs. D. A. W. Spratt, Miss E. M. Stedman, S. I. Strayer, J. F. Strieby, Esq., E. L. Tustin, Esq., Volunteer Mission Band, H. G. Wadlin, H. L. Wayland, D. D., Jos. K. Weaver, M. D., Jay G. Weiser, Esq., S. P. Wolverton, LL. D., and the Government Departments at Washington.

Contributions of books and periodicals are solicited. The librarian will furnish specific information as to our needs to any inquirers, and will acknowledge all gifts.

**The Reading-Room**, in connection with the general library, is maintained at the expense of the University. By purchase or by contribution, its tables are supplied with the current numbers of one hundred publications, including the leading scientific, literary, and philological reviews, and magazines and papers of the day.

On shelves adjoining the tables of the reading-room are placed encyclopedias, dictionaries, maps, gazetteers, indices, and complete sets of the leading reviews and magazines.

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## THE MUSEUM.

The College possesses a good collection of illustrative materials in Botany, Mineralogy, Geology, and Zoölogy. The specimens are distributed under these classifications and those of Archæology as follows:

Botany.....	1,350
Mineralogy.....	3,000
Geology.....	2,000
Zoölogy.....	4,450
Archæology.....	525
Total.....	<u>11,325</u>

Additions to the Museum will always be thankfully received, especially of objects which can be used in class-room.

Among these may be mentioned: Zoölogical specimens, especially marine and fresh-water forms of life; insects; skeletons of vertebrated animals, birds and mammals; botanical specimens; crystallized minerals; American and especially Pennsylvania rocks.

Contributions have been received for the Museum during the past year from Prof. D. S. Maynard, of Wildwood, N. J., a set of marine shells; Prof. H. M. Kelley, '86, collection of shells from Havana, Ill.; J. W. Hagne, Esq., Class '73, pair of Indian pheasants with brood; W. C. Gretzinger, '89, Indian relics; Nel-



son F. Davis, '95, collection of starfish; Prof. H. N. Conser, of Sunbury, histological material; C. A. Lindemann, '98; Prof. Geo. G. Groff; J. D. Macnab, '96; Rev. Chas. T. Hallowell, '70, Pipestone, Minn.; Rev. James Fielding, Class '78; Prof. Howard Miller, Lewisburg, Pa.

The University acknowledges the gift of the "Columbian Shield" from J. Abraham Coles, M. D., Scotch Plains, N. J., in memory of his father, Abraham Coles, M. D., Ph.D., LL. D.

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## THE ART COLLECTION.

The beginning has been made of a collection of paintings, casts, engravings, and heliotypes, for the illustration of the Fine Arts. The specimens now in possession of the College number about five hundred, of all kinds, and furnish very considerable aid in illustrating the principles and the history of painting and sculpture.

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## LABORATORY AND APPARATUS.

The Chemical and Physical Laboratory affords superior advantages in the study of Chemistry and Physics. Several rooms have been especially fitted up to render them suitable for studying, by means of experiments, the subjects of Sound, Light, Heat, and Electricity. Most of the apparatus necessary for experimenting in these branches is now provided and others will be added as occasion may demand.

The experiment room for Descriptive Chemistry will accommodate ninety-six students in two sections. Each student is provided with a desk, having upon it gas, water, basin with waste, and hood for carrying off foul gases. The most frequently-used chemicals and pieces of apparatus will be supplied to each student, to be retained by him during the term, and kept under lock and key. Other materials will be placed on a table to be used in common by all the students.

In the lecture-room hoods and ventilating flues enable the professor to perform experiments involving the generation of foul odors without vitiating the air of the room. A projecting lantern of the most improved type, made by Newton & Co. (London, Eng.), charts, and specimens are freely used to illustrate the subject under consideration.

In the analytical rooms full opportunity for individual work is afforded, throwing each student upon his own responsibility in order to accomplish the most complete development. Advanced students are encouraged to devise tests and methods of separation other than those mentioned in the text-book, and thus to cultivate the habit of original investigation.

The Physical and Chemical Library has a room on the second floor, and offers facilities for the investigation of subjects in Physics and Chemistry. A number of scientific periodicals are taken, so that the most recent thought and investigation in any line of work is accessible at any time.

The student is expected to pay for materials used and apparatus broken. To meet this a deposit will be made in the beginning of the term with the Registrar, and the balance will be returned at the close of the term.

The Laboratories will be open from 8.30 A. M. to 5 P. M. daily, except Saturday, Sunday, and legal holidays.



## GENERAL COLLEGE ORDERS.

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### ATTENDANCE.

Only under exceptional circumstances will excuses be granted to leave College during term time. In such cases the examination on the studies gone over by the class, during a student's absence, will be specially searching, and a high degree of attainment will be exacted. One who is absent during the entire term must almost necessarily lose his standing in his class. The work of the term begins on the day of opening, and recitations are expected at the first hour appointed for the meeting of the classes. The work continues uninterruptedly, with the exception of holidays marked in the Calendar, until the last day of the term.

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### STANDING.

Each instructor records, in numbers ranging from 0 to 10, the character of the recitation of every student reciting to him, and notes also any delinquency in conduct and attendance. The weekly summary of these markings is recorded in permanent books, and constitutes the basis for determining the standing of the student during his connection with the Institution. Unexcused absences from recitations are counted as zeroes in making up the weekly averages. At the close of each term an average of these marks is made out, and a report of the scholarship, attendance, and conduct of each student is transmitted to his parent or guardian by the President. No student is advanced from one class to another whose average in any study is less than 7.

Conditioned students are not recommended to the Board of Trustees for promotion, and their names in the Annual Catalogue appear with those of the class to which the study in question belongs. Students conditioned on entrance must discharge such conditions within the first year thereafter.

Appointments in the Graduating Class are made according to the aggregate standing of each member during his entire course. But in assigning these parts, the Faculty takes into account the deportment of the student, as well as marks for recitations. The minimum average for an Oration of the First Class is fixed at 9, and for an Oration of the Second Class at 8.

Students who attain an average of 9.4 or more for their entire course are graduated *summa cum laude*; students who attain an average of 9.2 or more are graduated *magna cum laude*; those who attain an average of 9 or more are graduated *cum laude*.

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### EXAMINATIONS.

The dates of the examinations are given in the Calendar. In case a student fails to be present at the examination of his class, for any justifiable reason, his examination will be held at such time as the Faculty may appoint.

## PUBLIC WORSHIP.

The College duties of each day are opened with religious services in Bucknell Hall, which all the students of the College and Academy are required to attend.

Attendance upon public worship in some church in town on Sunday morning is required. Students must attend the religious services held on Thanksgiving Day.

On the Day of Prayer for Colleges, religious services are held in the forenoon, when a sermon is preached by the President, or by some one at his request. All the students are required to attend. In the afternoon and evening services are held in Bucknell Hall, attendance upon which is urged, though not required.

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## VOLUNTARY SOCIETIES.

**Euepia ; Theta Alpha.**—These are the two Literary Societies of the College. They have meetings on Friday evening of each week for Orations, Essays, and Debates. Each Society has a convenient hall, and, by an arrangement of the Faculty, will always have a nearly equal number of members.

**The Zeta Literary Society** is composed of young women admitted to any of the courses in the College, and holds meetings bi-weekly.

**The Young Men's Christian Association** is formed of students from the College. It receives religious periodicals and corresponds with kindred societies. A hall has been appropriated to the Society, and has been suitably furnished for religious meetings.

**The Students' Publishing Association** is an organization which has in charge the issuing of the *Bucknell Mirror*. This periodical, of some twenty-four or more quarto pages, appears semi-monthly during the collegiate year.

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## GOVERNMENT.

It is assumed that all who enter upon the courses of study in the College do so for the purpose of acquiring an education, not only of the intellect, but also of character. The Laws of the College, enacted by the Board of Trustees, are as few and simple as the proper regulation of a community of young men will permit. These are printed, and a copy is placed in the hands of every student at the beginning of each year. These Laws must be observed, not only in their letter, but in their spirit. The atmosphere of the Institution is not that of arbitrary restraint, but of reasonable conformity to reasonable laws. The College does not wish to place its stamp or bestow its honors upon any one who is not willing to deport himself as a gentleman. Each student is distinctly placed upon his manhood, and if he abuses his privileges, after reasonable caution, he must withdraw from the Institution.

## PRESIDENT'S OFFICE HOURS.

The President of the University is in his office, in the Main College building, every Tuesday from 9.30 A. M. to 12 noon, to confer with students who may desire advice or assistance. Students are encouraged to communicate frankly with the President upon any subject in which he may be of help to them.

## OFFICE HOURS FOR THE FRESHMAN CLASS.

In addition to the office hours for the students in all departments of the University, special office hours for the members of the Freshman Class are held by Professor Hulley, in the President's office, on each Wednesday from 9.15 to 11.15 A. M.

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## HEALTH AND PHYSICAL CULTURE.

### THE TUSTIN GYMNASIUM.

WILLARD MAINE BUNNELL, EMMANUEL W. COBER, DIRECTORS.

The Tustin Gymnasium has been provided for the physical training and development of male students. Young women have opportunity for physical training in the Gymnasium of the Institute. These are now provided with the apparatus usually found in well furnished gymnasiums. The Directors of the Gymnasium examine every student, taking and recording in a book his physical measurements, and prescribe such exercise as may be required for his physical development. Regular exercise in the Gymnasium is required of all students during the winter term.

The Athletic Association of the College has been formed to encourage and regulate athletic sports. Considerable liberty is permitted to the Association in carrying out its purpose. The Association is not allowed, however, to arrange match games with other similar bodies without first having secured the consent of the Faculty.

An Infirmary has been fitted up for the better care of the sick.



## AIDS AND HONORS.

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### PRIZES.

#### THE FRESHMAN DECLAMATION PRIZE.

A prize is awarded to the member of the Freshmen Class who shall excel in declamation at the Annual Contest of the Freshman Class.

The prize was awarded in 1896 to Charles Paul Meeker.

#### THE PRIZE OF THE CLASS OF '71.

This prize, established by the Class of 1871, is awarded to the student of the Freshman Class who shall prove himself best prepared for College in the two branches, Latin and Mathematics, and who shall have received his preparatory training in Bucknell Academy.

The prize for 1896 was awarded to Oliver John Decker.

#### THE FRESHMAN ESSAY PRIZE.

An annual prize is given to that member of the Freshman Class who shall, on or before the first day of June in each year, present the best essay upon a topic to be selected by the Professor of Rhetoric. The Committee of Award will consist of the Professor of Rhetoric and two others, to be designated by the Faculty.

The topic of the current year is "An Account of Macaulay's Essay on Milton."

The prize for 1896 was awarded to Oliver John Decker.

#### THE SOPHOMORE DECLAMATION PRIZE.

A prize is awarded to the member of the Sophomore Class who shall excel in declamation at the Annual Contest of the Sophomore Class.

The prize for 1896 was awarded to George Morgan Davis.

#### THE SOPHOMORE ESSAY PRIZE.

A prize is awarded to the member of the Sophomore Class who shall write the best English composition on an assigned subject. The Committee of Award consists of the Professor of Rhetoric and two others chosen by him.

The subject chosen for the year 1897 is "Shakspeare's Attitude Toward the Jews as Seen in 'The Merchant of Venice.'" The compositions are limited to 2,000 words, and must be presented to the Committee on or before the first day of June.

The prize was awarded in 1896 to Walter Liddell Hill.

#### DECLAMATION PRIZE FOR WOMEN.

A prize for the best declamation, open for competition to the Sophomore and Freshman Classes, was awarded in 1896 to Miss Anna May Gilchrist.

**THE REGISTRAR'S PRIZE.**

The Registrar of the University offers a prize to that member of the Junior Class who shall pronounce the best oration at the Junior Exhibition in Oratory. The Junior oratorical prize was awarded in 1896 to Vincent Barrett Fisk.

**JUNIOR DEBATE PRIZE.**

Prizes will be awarded to the two members of the Junior Class who evince superiority in debate at the Junior prize contest.

The prize was divided, in 1896, between Edward C. Kunkle and Ferdinand F. Nelson.

**THE HOLLOPETER PRIZE.**

William C. Hollopeter, M. D., Class of 1874, has established an annual prize for excellence in Chemistry, to be awarded to that student at graduation who shall have done the best work in Chemistry, regard being had both to the amount and quality of the work.

This prize was awarded, in 1896, to Frank Barron Miller.

**THE HERBERT TUSTIN PRIZES.**

In memory of his deceased son, the late Professor F. W. Tustin, Ph. D., of the Class of 1856, paid to the Trustees of the University the sum of five hundred dollars, "as the foundation of the HERBERT TUSTIN PRIZE FUND, the interest of which is to be forever paid annually as two prizes, in the proportion of fifteen dollars for the First Prize, and of ten dollars for the Second Prize, to the two students of the Senior Class who shall have attained the highest and the second highest standing in Psychology and Ethics (under such regulations for the pursuit of these studies as the Faculty of the College shall prescribe from time to time), and whose conduct for the last two years of their course in College shall have been without exception."

The first prize was awarded, in 1896, to Frederick W. Brown, and the second to Mary Moore Wolfe.

**THE GEORGE ALEXANDER BAILEY PRIZE.**

A prize for excellence in the required Latin of the Classical and Philosophical Courses, established in memory of George Alexander Bailey, M. D., by his brother, Orville E. Bailey, was awarded, 1896, to Alexander Douglass.

**THE CHAPLAIN J. J. KANE PRIZE.**

The Rev. James J. Kane, Chaplain in the United States Navy, and a graduate of the Theological Department of this University, of the Class of 1867, has established a Prize which is to be given annually to that member of the graduating class who delivers the best oration on Commencement Day.

The prize was awarded, in 1896, to Daniel E. Lewis.

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**THE CHARLES MILLER FELLOWSHIP.**

A fellowship in Chicago University, open only to graduates of Bucknell University, has been founded by Hon. Charles Miller, A. M., of Franklin, Pa.

The Bucknell University Fellow for 1896-97 is Ephraim M. Heim, A. B., Class of 1893.

## SCHOLARSHIPS.

### I. THE BUCKNELL SCHOLARSHIPS.

The William Bucknell Scholarships, twenty in number and of \$1,000 each, were established for the purpose of aiding worthy young men in securing an education which will increase their usefulness in the world. The income of these scholarships is to be paid annually to twenty young men, in accordance with the rules which will be made known upon application to the Committee of Examination, consisting of the President of the University, H. S. Hopper, Esq., and Professor Rockwood.

### II. SCHOLARSHIPS FOR MINISTERS' CHILDREN.

Scholarships upon the general foundation have been established for the children of ministers of the Gospel, of all denominations, in active service.

### III. THE LIVINGSTON SCHOLARSHIPS.

Established from a legacy of M. B. Livingston, twenty-two in number, are available for students for the Ministry.

### IV. THE LONGAN SCHOLARSHIP.

The Longan Scholarship, established from a legacy of O. W. Longan, Esq., is available for a student for the Ministry from Lycoming Co., Pa.

### V. THE EBEN C. JAYNE SCHOLARSHIPS.

Two scholarships have been established by Eben C. Jayne, Esq., of Philadelphia, for the benefit of young women in the College, the award to depend upon the standing and character of the students receiving them.

The Eben C. Jayne scholarships were given, 1896, to Miss Mary Cotton and Miss Rosa Louise Hartley.

### VI. THE GEORGE ALEXANDER BAILEY SCHOLARSHIP.

A scholarship in memory of George Alexander Bailey, M. D., has been established by his brother, Orville E. B. Bailey.

### VII. ANNUAL SCHOLARSHIPS.

A number of persons have established annual scholarships for the aid of young men or women attending College. Information concerning ministerial and annual scholarships can be obtained from the President of the University.

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## HONOR STUDIES.

In order to promote special scholarship in the several departments of study the following provision has been made :

1. Any student who has obtained an average of 9 in the studies of the previous term may take special work in any department of the College, under the direction of the Professor of that department.

2. Such work must be assigned by the Professor, and the method of study prescribed by him.



3. If the student shall attain an aggregate average of 9 in all the studies of the current term, and pass a satisfactory examination in the voluntary study before a committee appointed by the Faculty, the work shall be credited to him in the Annual Catalogue of the College.

4. But one such study shall be pursued by any one student during any one term.

5. The Professor under whom the student is working shall have the privilege of requiring a partial examination on the work done at any time during the term, and there may be regular recitations at the Professor's option.

6. The amount and quality of this extra work shall be taken into account in awarding honors at graduation.

The following Honor Examinations have been sustained during the year ending June 24, 1896:

**The English Language and Literature:** Abram Sterling Barner, Maud Elizabeth Hanna, Romeyn Rivenburg, Nelly Taylor, William Elmer Hall, Mary Rohrer, Ervin Russell Powell, in Milton; Herbert Frederic Harris, in *The Pre-Shakspearean Drama*; Herbert Frederic Harris, in *Six American Authors*; Vincent Barrett Fisk, Anna Kate Goddard, Rosa Louise Hartley, Romeyn Rivenburg, Carl Summerbell, Nellie Taylor, John Truman Anderson, Elwood Herbert Dutton, Harry Chester Fithian, in Chaucer.

**The Latin Language and Literature:** Maud E. Hanna, in Seneca; Ernest R. Myers, Grace Slifer, Laura L. Allen, Floyd G. Ballentine, Clarissa Fowler, and Oliver J. Decker, in Ovid; Daniel K. Laudenslager, Herbert B. Moyer, and Frank W. Tilley, in Cicero de Officiis; Floyd G. Ballentine and Oliver J. Decker, in Cicero de Amicitia; Herbert B. Moyer, in Nepos and in Plautus and Terence; Albert W. Johnson, in Law.

**The Greek Language and Literature:** Leander W. Baldwin, Joseph R. L. Diggs, and Howard C. Meserve, in the *Odyssey*; Mary Evans Chambers and Robert Green Slifer, in Xenophon's *Æconomicus*.

**The Hebrew Language:** Fred. Delisle Finn, three courses; James Demorest Macnab, one course.

**Modern Languages:** Henrietta Allen, George M. Davis, Charles S. Keen, Ralph F. Koons, William R. Morris, Romeyn Rivenburg, Mary Eloise Schuyler, and Gertrude Stephens, in German.

**Mathematics and Astronomy:** Mary Cotton, in Quaternions.

**Chemistry and Physics:** Foster Calvin Fisher, in *Electricity*; Foster Calvin Fisher, Amos Thomas Williams, in *Experimental Physics*; Robert Burns McCay, Frank Barron Miller, Leroy T. Butler, in *Modern Theories of Chemistry*; Robert Burns McCay and Frank Barron Miller, in *Chemical Philosophy*.

**Organic Science:** Mary Cotton, William Elmer Hall, and James Demorest Macnab, in *Mineralogy*; Robert Burns McCay, Frank Barron Miller, Mary Moore Wolfe, Nelly Taylor, in *Systematic Botany*; Charles A. Lindemann, in *Vegetable Histology*; Amos Thomas Williams and Mary Moore Wolfe, in *Biology*; Lewis Clark Walkinshaw, in *Histology*; Mary Wolfe Moore, in *Zoölogy*.

**Economics and Political Science:** John W. Davis, Charles Firth, and Lewis C. Walkinshaw, in *Economics*; Hervey H. Bower and Herbert F. Harris, in *Civil Government*; Lewis C. Walkinshaw, in *American Civics*; Herbert F.

Harris, Thomas R. Taggart, Merton R. Collins, Anna K. Goddard, Rosa E. Hartley, Charles A. Lindemann, Harry T. Sprague, Nelly E. Taylor, Samuel W. Gilpin, Ralph F. Koons, and Grace Slifer, in Sociology.

**Mediaeval and Modern History:** Hervey Harris Bower and Albert Collins Rohland, three courses in Constitutional History of England; Barclay Reynolds, Jr., two courses, and Herbert F. Harris, one course in same; Forrest Lloyd Fulton, Albert Williams Johnson, Ferdinand F. Nelson, Robert T. Wiltbank, Jr., and Romeyn Rivenburg, in English History.

**Logic and Anthropology:** Hervey Harris Bower, Harry Thomas Colestock, John Warren Davis, Alexander Douglass, Charles Firth, William Elmer Hall, Herbert Frederic Harris, Daniel Elwood Lewis, Ervin Russell Powell, Mary Rohrer, Samuel Rawcliffe Wood, and Harry C. Fithian, in Anthropology; Herbert Frederic Harris, in Inductive Logic.

**Mental and Moral Philosophy:** Charles James Berger, Frederick William Brown, Foster Calvin Fisher, Thomas Reber Taggart, Amos Thomas Williams, and Mary Moore Wolfe, in Ladd's Physiological Psychology; Mary Moore Wolfe, in Lotze Grundzüge der Psychologie; Maud Elizabeth Hanna, Rosa Louise Hartley, Frank Hollinshead, and Harry Thomas Sprague, in Rosenkranz's Philosophy of Education.

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## EXPENSES.

The Study Rooms are so arranged that two students occupy the same study. The Dormitories are intended to accommodate only one person, so that each student has his own private sleeping-room. These are furnished with new spring bedsteads. The student must supply himself with all other furniture. Students are responsible for damage to their rooms, whether it be done when they are present in the room or absent from it.

The College charges amount to \$35 per annum, for those who room in the College building, and \$75 for those who room in the town. The Scholarships are rated at \$50 per annum.

These charges must be paid in advance at the beginning of each term.

No student is entitled to his place in his class until he has made settlement with the Registrar.

A slight additional charge is made for rooms cared for by the Institution.

If a student occupy a study by himself, the charges for room-rent and private fuel will be doubled. The assignments are for one year, and are made the first Monday morning in June, immediately after the devotional exercises in Bucknell Hall. Students from a distance will save inconvenience by applying to the Registrar for a room before the term opens.

Young men in the Collegiate Department, who so desire, can have furnished rooms, with board, in the East Hall of the Academy; young ladies in the same department have their residence in the Institute. For rates apply to the Registrar.

Free scholarships, covering tuition, are also provided in all the departments of the University for children of Ministers of the Gospel, *in actual service*.

In the laboratories students pay for chemicals used and for apparatus broken or damaged. In the Chemical Laboratory this will amount to about \$12 for Analytical and \$3.25 for General Chemistry, depending upon the care of the student.

A small fee is charged also in each of the elective courses in the department of Organic Science, and in City Surveying, for the use of instruments and for material used.

Before entering upon the experimental courses students must deposit with the Registrar security for materials used.

The expenses for Music and Printing for Examinations and Anniversary occasions are paid for by the classes for which such expenses are incurred. Graduation fee and Diploma, \$5.00. Degree of Master of Arts and Diploma, \$5.00.

Many students board in clubs at a cost of from \$2.00 to \$2.50 per week. Excellent boarding can be obtained in private families at \$3.00 or \$4.00 per week, or at the table of the Bucknell Academy at \$3.00 per week. Washing is done at 25 cents per week. No boarding is allowed in the College buildings. It will be a matter of economy to bring some articles of furniture, especially bedding and carpets, from home. The dimensions of the study rooms are 12 by 12 feet; of the dormitories, 12 feet by 6 feet; of the bedsteads, 75 inches by 30 inches.



## FORTY-SIXTH ANNUAL COMMENCEMENT.

Wednesday, June 24, 1896.

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### HONORS AT GRADUATION.

#### *ORATIONS SUMMA CUM LAUDE.*

HARRY THOMAS COLESTOCK,	HERBERT FREDERIC HARRIS,
MARY COTTON,	DANIEL ELWOOD LEWIS,
ALEXANDER DOUGLASS,	MARY MOORE WOLFE,
ALBERT WILLIAMS JOHNSON,	SAMUEL RAWCLIFFE WOOD.

#### *ORATIONS MAGNA CUM LAUDE.*

HERVEY HARRIS BOWER,	ROBERT BURNS McCAY,
FREDERIC WILLIAM BROWN,	ALBERT COLLINS ROHLAND,
JOHN WARREN DAVIS,	THOMAS REBER TAGGART,
FRED DELISLE FINN,	LEWIS CLARK WALKINSHAW,
FOSTER CALVIN FISHER,	AMOS THOMAS WILLIAMS.

#### *ORATIONS CUM LAUDE.*

ALVIN ALONZO COBER,	ERVIN RUSSELL POWELL,
WILLIAM ELMER HALL,	BARCLAY REYNOLDS, JR.,
FRED BURTON HUNT,	MARY ROHRER,
JAMES DEMOREST MACNAB,	JOSIAH BOWER SUITER,
FRANK BARRON MILLER,	BURTON BELFORD WARE.

#### *ORATIONS.*

LEANDER WILBUR BALDWIN,	CHARLES FIRTH,
CHARLES JAMES BERGER,	THOMAS LEWIS JOSEPHS,
ALBERT WOODWARD STEPHENS.	

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### DEGREES CONFERRED ON EXAMINATION.

#### *MASTER OF ARTS.*

EZRA ALLEN, A. B.,	LEO GUIDO CHARLES RIEMER, A. B.,
WM. THEODORE PAULLIN, JR., A. B.,	BROMLEY SMITH, A. B.

#### *MASTER OF SCIENCE.*

NELSON FITHIAN DAVIS, SC. B.,	HERBERT SPENCER SCHUYLER, SC. B.
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#### *BACHELOR OF ARTS.*

LEANDER WILBUR BALDWIN,	MARY COTTON,
HERVEY HARRIS BOWER,	JOHN WARREN DAVIS,
HARRY THOMAS COLESTOCK,	ALEXANDER DOUGLASS,

FRED DELISLE FINN,  
FOSTER CALVIN FISHER,  
WILLIAM ELMER HALL,  
HERBERT FREDERIC HARRIS,  
FRED BURTON HUNT,  
ALBERT WILLIAMS JOHNSON,  
THOMAS LEWIS JOSEPHS,  
JAMES DEMOREST MACNAB,

ROBERT BURNS McCAY,  
ERVIN RUSSELL POWELL,  
ALBERT COLLINS ROHLAND,  
ALBERT WOODWARD STEPHENS,  
JOSIAH BOWER SUITER,  
THOMAS REBER TAGGART,  
BERTON BELFORD WARE,  
MARY MOORE WOLFE,

SAMUEL RAWCLIFFE WOOD.

### *BACHELOR OF PHILOSOPHY.*

ALVIN ALONZO COBER,  
DANIEL ELWOOD LEWIS,  
BARCLAY REYNOLDS, JR.,

MARY ROHRER,  
LEWIS CLARK WALKINSHAW,  
AMOS THOMAS WILLIAMS.

### *BACHELOR OF SCIENCE.*

CHARLES JAMES BERGER,  
FREDERICK WILLIAM BROWN,  
CHARLES FIRTH,

FORREST LLOYD FULTON,  
ELWOOD TYSON HADDOCK,  
FRANK BARRON MILLER.

### *MASTER OF ARTS IN CURSU.*

ARTHUR FREMONT GARDNER, A. B.,      JAMES McLEAN PATERSON, A. B.,  
NICHOLAS PARIS MERVINE, A. B.,      ALMON ODELL STEVENS, A. B.,  
EUGENIO KINCAID THOMAS, A. B.

## HONORARY DEGREES CONFERRED.

### *MASTER OF ARTS.*

E. RAYMOND BLISS, ESQ.,      GRANVILLE MALCOM, M. D.,  
WILLIAM JUDSON COXEY, ESQ.,      THE HONORABLE CHARLES MILLER.  
JOSEPH MOORE, ESQ., F. R. G. S.

### *DOCTOR OF DIVINITY.*

THE REVEREND LEMUEL CALL BARNES, A. M.,  
THE REVEREND PROFESSOR ADOLPH DRAKE,  
THE REVEREND SOLOMON FRANKLIN FORGEUS, A. M., B. D.,  
THE REVEREND GEORGE WHITMAN, A. M., B. D.

### *DOCTOR OF LAWS.*

THE HONORABLE SIMON PETER WOLVERTON, A. M.

# THE ACADEMY.

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## INSTRUCTORS AND OTHER OFFICERS.

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JOHN HOWARD HARRIS, PH. D., LL. D.,

PRESIDENT OF THE UNIVERSITY.

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THOMAS A. EDWARDS, A. M., PRINCIPAL,

LATIN.

ALBERT BURNS STEWART, A. M.,

MATHEMATICS.

LLEWELLYN PHILLIPS, A. M.,

GREEK AND ENGLISH.

WILLIAM ALBERT KAUFFMAN, A. B.,

SCIENCE.

MISS ELIZA BELL, PH. B.,

HISTORY AND ENGLISH.

MRS. ANNIE M. BLACK,

MATRON.

WILLIAM CHRISTIAN GRETZINGER, PH. B.,

REGISTRAR OF THE UNIVERSITY.



## STUDENTS.

## THE FOURTH FORM.

## CLASSICAL.

NAME.	RESIDENCE.	ROOM.
GEORGE WELLS ALEXANDER,	<i>Philadelphia.</i>	No. 5, East Hall
FRANK EUGENE BURPEE,	<i>Erie.</i>	No. 6, East Hall
FRED RANDOLPH CAMPBELL,	<i>Kane.</i>	No. 11, East Hall
WILLIAM DEVITT,	<i>Philadelphia.</i>	No. 12, Main Hall
ALFRED ALLYN EARLE,	<i>Lewisburg.</i>	Rev. I. N. Earle
WILLIAM JOHN PEACOCK,	<i>Pittsburg.</i>	Rev. J. T. Gallagher
HUGO BRUNO CHARLES RIEMER,	<i>Brookston.</i>	No. 17, East Hall
JOSEPH ZERBE ROWE,	<i>Reading.</i>	No. 12, East Hall
WALTER ELMER RUCH,	<i>Northumberland.</i>	Home
DAVID ASBURY SAUSSER,	<i>Shamokin.</i>	No. 18, East Hall
EDGAR THOMSON SHIELDS,	<i>Lewisburg.</i>	Mr. William Shields
JOHN STORER STEPHENS,	<i>Lewisburg.</i>	Rev. Leroy Stephens, D. D.
CHARLES WAGONER WOLFE,	<i>Bangor.</i>	Mr. Abram Mertz

## SCIENTIFIC.

NAME.	RESIDENCE.	ROOM.
CALEB B. AYARS,	<i>Wilmington, Del.</i>	No. 8, Main Hall
THOMAS EVANS, JR.,	<i>Freeland.</i>	No. 13, East Hall
GORDON FORSTER,	<i>Lewisburg.</i>	Mr. William Forster

NAME.	RESIDENCE.	ROOM.
RAYMOND GREENE,	<i>Lewistown.</i>	No. 15, East Hall
RAYMOND GRIFFITH PIERSON,	<i>Philadelphia.</i>	No. 8, Main Hall
ROBERT JEROME POWELL,	<i>Ridgway.</i>	No. 22, East Hall
JOHN ADAM YOUNG,	<i>New Columbia.</i>	Mr. Harry Poeth

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### THE THIRD FORM.

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#### CLASSICAL.

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NAME.	RESIDENCE.	ROOM.
RAY HARRIS CASE,	<i>Lewisburg.</i>	Mr. E. L. Case
ALAN CRAIG CUNNINGHAM,	<i>Philadelphia.</i>	No. 5, Main Hall
MILTON JUDSON DAVIS,	<i>Lewisburg.</i>	Home
GEORGE JAMES DICKINSON,	<i>Brookston.</i>	No 17, East Hall
CLARENCE GREENE DILL,	<i>Lewisburg.</i>	Mr. R. M. Greene
JOHN SIDNEY HOFFA,	<i>Washingtonville.</i>	No. 10, Main Hall
AMOS M. JACQUEMIN,	<i>Blossburg.</i>	No. 11, Main Hall
GEORGE MATTHEW KING,	<i>Portsmouth, Va.</i>	Mr. Grant Cusper
JOHN W. MCCrackEN,	<i>Kerrmoor.</i>	No. 5, Main Hall
DAVID ALEXANDER PITTS,	<i>Philadelphia.</i>	No. 8, Main Hall
THOMAS ANDREW SHERBONDY,	<i>Philadelphia.</i>	No. 6, Main Hall
WILLIAM HARLEY SLIFER,	<i>Lewisburg.</i>	Mrs. C. V. Slifer
GEORGE HERBERT STEWART,	<i>Lewisburg.</i>	Prof. A. B. Stewart

## SCIENTIFIC.

NAME.	RESIDENCE.	ROOM.
HAROLD BARNES,		No. 11, East Hall
	<i>Bayonne, N. J.</i>	
FLEMING BOWER,		F. E. Bower, Esq.
	<i>Lewisburg.</i>	
CALVIN HAYES ELLIOTT,		No. 3, Main Hall
	<i>Hartleton.</i>	
WILLIAM MARSHALL GROFF,		Prof. George G. Groff
	<i>Lewisburg.</i>	
WILLIAM NOGLE MARSH,		Mrs. Nellie C. Marsh
	<i>Lewisburg.</i>	
ELI SLIFER WALLS,		Mr. W. C. Walls
	<i>Lewisburg.</i>	

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## THE SECOND FORM.

NAME.	RESIDENCE.	ROOM.
RICHARD MARTIN BELL,		No. 3, Main Hall
	<i>Sabbath Rest.</i>	
SAMUEL LUTHER CLARK,		No. 12, East Hall
	<i>Glen Campbell.</i>	
ROBERT MCGREGOR DARLINGTON,		Mr. R. D. Darlington
	<i>Lewisburg.</i>	
WILLIAM DAVIS,		No. 4, Main Hall
	<i>Nanticoke.</i>	
JOHN DAVIS,		No. 4, Main Hall
	<i>Nanticoke.</i>	
CLIFTON DUNKEL,		Mr. J. E. Dunkel
	<i>Buffalo Roads.</i>	
MERLE MOE EDWARDS,		Principal Edwards
	<i>Lewisburg.</i>	
JOHN MORRIS EVANS,		No. 7, Main Hall
	<i>Scranton.</i>	
WILLIAM EVANS,		No. 13, East Hall
	<i>Freeland.</i>	
FOREST FLOYD GALLAGHER,		Rev. J. T. Gallagher
	<i>Lewisburg.</i>	
JOHN SMITH GOODMAN,		Mr. G. W. Goodman
	<i>Lewisburg.</i>	
JOHN CHARLES GROFF,		Prof. George G. Groff
	<i>Lewisburg.</i>	
REESE HARVEY HARRIS,		President Harris
	<i>Lewisburg.</i>	
WILLIAM HUBER HOFFA,		No. 10, Main Hall
	<i>Washingtonville.</i>	



NAME.	RESIDENCE.	ROOM.
CYRUS MOYER KRALL,	<i>Schaefferstown.</i>	No. 20, East Hall
JOHN BLACK PACKER,	<i>Sunbury.</i>	No. 10, East Hall
PARK B. STEININGER,	<i>Lewisburg.</i>	Mr. A. R. Steininger
DAVID WILLIAM THOMAS,	<i>Scranton.</i>	No. 7, Main Hall
STEPHEN TREVERTON,	<i>Ivanhoe, Va.</i>	Mr. John Sprague

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## FIRST FORM.

NAME.	RESIDENCE.	ROOM.
ROGER SAUNDERS EDWARDS,	<i>Lewisburg.</i>	Principal Edwards
RALPH RAYMOND GALLAGHER,	<i>Lewisburg.</i>	Rev. J. T. Gallagher
WILLIAM HENRY JESSON,	<i>Camden, N. J.</i>	Mr. Paul E. Weithaase
WALTER ALBERGER MINTZER,	<i>Philadelphia.</i>	No. 16, East Hall
WILLIAM CAMERON PACKER,	<i>Sunbury.</i>	No. 10, East Hall
RAYMOND CHESTER PATCHIN,	<i>Patchinville.</i>	No. 12, East Hall
HAROLD PERRINE,	<i>Lewisburg.</i>	Professor Perrine
JOSEPH WILMINGTON REIFSNYDER,	<i>Millheim.</i>	Mrs. Sally Overdorf
RALPH WALDO EMERSON SAVIDGE,	<i>Sunbury.</i>	Hon. C. R. Savidge

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## PURSUING SELECT STUDIES.

NAME.	RESIDENCE.	ROOM.
CARROLL LEWIS DOUGLASS,	<i>Bradford.</i>	No. 5, West Wing
ARTHUR NICHOLAS DEVORE,	<i>Lewisburg.</i>	Rev. E. A. Devore
ROBERT YOUNG GRANT,	<i>Ridgway.</i>	No. 14, East Hall
JESSE CORNELIUS HIGGINS,	<i>Lewisburg.</i>	Mr. D. P. Higgins

NAME.	RESIDENCE.	ROOM.
GEORGE MURHEID HOWELL,	<i>Northumberland.</i>	Mr. C. M. Howell
GEORGE HURBURT HYDE,	<i>Ridgway.</i>	No. 14, East Hall
JOSEPH JEREMIAH,	<i>Scranton.</i>	No. 9, East Hall
WILLIAM NATTRESS,	<i>Sunbury.</i>	Home
ELERY PAGE,	<i>Port Allegheny.</i>	No. 4, Main Hall
LEE RUSSELL RANCKE,	<i>New Columbia.</i>	Mr. D. Gross
OSCAR NAYLOR RAMBO,	<i>Pottstown.</i>	No. 18, East Hall
GEORGE CLARENCE ROGERS,	<i>Muncy.</i>	No. 19, East Hall
JAMES PHILIP RUHL,	<i>Lewisburg.</i>	Mr. J. T. Ruhl
CARL HENRY SENN,	<i>Williamsport.</i>	No. 11, Main Hall
WILLIAM SCOTT SHIELDS,	<i>Lewisburg.</i>	Mr. William Shields
WILLIAM SPENCER SKINNER,	<i>Lewisburg.</i>	Home
BENJAMIN WHITMAN,	<i>Lewisburg.</i>	Mr. F. O. Whitman
SAMUEL WITTENMYER,	<i>Middleburg.</i>	No. 9, East Hall

## SUMMARY.

The Fourth Form, Classical, . . . . .	13
Scientific, . . . . .	7
	— 20
The Third Form, Classical, . . . . .	13
Scientific, . . . . .	6
	— 19
The Second Form, . . . . .	19
The First Form, . . . . .	9
Unclassified, . . . . .	17
	—
Total in Academy, . . . . .	84
In other Departments, . . . . .	340
	—
Total in all Departments, . . . . .	424

## COURSES OF STUDY.

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The Academy is designed to fit pupils for College, for Teaching, or for Business. It offers two Courses of Study.

**I. The Classical Preparatory Course** extends through four years and is arranged to meet the requirements for admission to College. The study of Latin begins with the Second Form and continues for three years. The study of Greek begins with the Third Form and continues for two years. Notwithstanding the time given to these important branches of study, fully one-half of the time of the entire course is devoted to English, Historical, Mathematical, and Scientific subjects.

**II. The Scientific Preparatory Course** extends through four years and furnishes adequate preparation for either division of the Philosophical Course in College. The First and Second Forms of the Classical and the Scientific Courses are identical. In the Third and Fourth Forms, the student preparing for the Latin Division substitutes Historical and Scientific subjects for the Greek of the Classical Course; while the student preparing for the Greek Division substitutes the Greek of the Third and Fourth Forms for the Latin and includes the Historical and Scientific subjects.

Students may enter the Form which they are prepared to pursue with profit.

Students who are able to accomplish more work in the allotted time than is required by the Classical Course, are encouraged to add the special studies of the Scientific Course. They may also pursue extra honor work in the Classics by reading, under an instructor's direction, Cæsar's Civil War, Cicero's Letters, or Sallust, and the Books IV, V, VI, of the Iliad, or the Hellenics.

Students who are preparing for the English Scientific Course in College can elect the necessary studies from the regular Curricula of the Academy.

Students who do not intend to enter College, but who desire a comprehensive academic training, will find the Scientific Preparatory Course, with Latin, well adapted to prepare them for teaching or for business.

Transient students may elect such studies as they are qualified to pursue from the studies in actual progress in any given term.



## CURRICULA.

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### I. CLASSICAL PREPARATORY COURSE.

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#### FIRST FORM.

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| I. TERM—Arithmetic,<br>English Grammar,<br>History of the United States, | Wentworth's Grammar School,<br>Reed and Kellogg's Higher Lessons,<br>Fiske.  |
| II. TERM—Arithmetic,<br>English Grammar,<br>General History,             | Wentworth's Grammar School,<br>Reed and Kellogg's Higher Lessons,<br>Barnes. |
| III. TERM—Arithmetic,<br>English Language,<br>General History,           | Wentworth's Grammar School,<br>Analysis and Composition,<br>Barnes.          |

#### SECOND FORM.

- |   |  |
|---|--|
| I. TERM—Higher Arithmetic,<br>Latin—Lessons,<br>Rhetoric,                         | Wentworth and Hill,<br>Tuell and Fowler,<br>Hill's Elements.   |
| II. TERM—Book-keeping,<br>Latin—Lessons,<br>Grammar,<br>History of Greece,        | Bryant,<br>Tuell and Fowler,<br>Allen and Greenough,<br>Myers. |
| III. TERM—Physical Geography,<br>Latin,<br>History of Rome,<br>Elementary Botany, | Appleton,<br>Collar's Gate to Cæsar,<br>Myers,<br>Gray.        |

#### THIRD FORM.

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| I. TERM—Natural Philosophy,<br>Cæsar's Commentaries,<br>Greek—Lessons,     | Sharpless and Philips,<br>Harper and Tolman,<br>White's First Greek Book.                  |
| II. TERM—Algebra,<br>Vergil's <i>Æneid</i> ,<br>Greek—Lessons,<br>Grammar, | Wentworth's Elements,<br>Harper and Miller,<br>Gleason's Gate to the Anabasis,<br>Goodwin. |
| III. TERM—Algebra,<br>Vergil's <i>Æneid</i> ,<br>Xenophon's Anabasis,      | Wentworth's Elements,<br>Harper and Miller,<br>Goodwin.                                    |

## FOURTH FORM.

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|---|---|
| I. TERM—Algebra, Quadratics,<br>Latin—Vergil's <i>Æneid</i> ,<br>Prosody,<br>Xenophon's <i>Anabasis</i> ,<br>Greek Prose Composition,         | Wentworth's <i>Elements</i> ,<br>Harper and Miller,<br>Harper and Miller,<br>Goodwin,<br>Harper and Castle. |
| II. TERM—Plane Geometry,<br>Latin—Cicero's <i>Orations</i> ,<br>Prose Composition,<br>Homer's <i>Iliad</i> ,                                  | Wentworth,<br>Allen and Greenough,<br>Daniell,<br>Seymour.  |
| III. TERM—Plane Geometry,<br>Cicero's <i>Orations</i> ,<br>Greek—Homer's <i>Iliad</i> ,<br>Prose Composition,<br>Xenophon's <i>Anabasis</i> , | Wentworth,<br>Allen and Greenough,<br>Seymour,<br>Harper and Castle,<br>Goodwin.                            |
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## II. SCIENTIFIC PREPARATORY COURSE.

## FIRST FORM.

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|--|--|
| I. TERM—Arithmetic,<br>English Grammar,<br>History of the United States, | Wentworth's <i>Grammar School</i> ,<br>Reed and Kellogg's <i>Higher Lessons</i> ,<br>Fiske.  |
| II. TERM—Arithmetic,<br>English Grammar,<br>General History,             | Wentworth's <i>Grammar School</i> ,<br>Reed and Kellogg's <i>Higher Lessons</i> ,<br>Barnes. |
| III. TERM—Arithmetic,<br>English Language,<br>General History,           | Wentworth's <i>Grammar School</i> ,<br><i>Analysis and Composition</i> ,<br>Barnes.          |

## SECOND FORM.

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|---|--|
| I. TERM—Higher Arithmetic,<br>Latin—Lessons,<br>Rhetoric,                         | Wentworth and Hill,<br>Tuell and Fowler,<br>Hill's <i>Elements</i> . |
| II. TERM—Book-keeping,<br>Latin—Lessons,<br>Grammar,<br>History of Greece,        | Bryant,<br>Tuell and Fowler,<br>Allen and Greenough,<br>Myers.       |
| III. TERM—Physical Geography,<br>Latin,<br>History of Rome,<br>Elementary Botany, | Appleton,<br>Collar's <i>Gate to Cæsar</i><br>Myers,<br>Gray.        |

## THIRD FORM.

I. TERM—Natural Philosophy, Cæsar's Commentaries, History of England,	Sharpless and Philips, Harper and Tolman, Guest.
II. TERM—Algebra, Vergil's <i>Æneid</i> , Astronomy,	Wentworth's Elements, Harper and Miller, Sharpless and Philips.
III. TERM—Algebra, Vergil's <i>Æneid</i> , Civil Government,	Wentworth's Elements, Harper and Miller, Macy.

## FOURTH FORM.

I. TERM—Algebra, Quadratics, Latin—Vergil's <i>Æneid</i> , Prosody, Physiology,	Wentworth's Elements, Harper and Miller, Harper and Miller, Walker.
II. TERM—Plane Geometry, Latin—Cicero's Orations, Prose Composition, English Literature,	Wentworth, Allen and Greenough, Daniell, Pancoast.
III. TERM—Plane Geometry, Cicero's Orations, Geology,	Wentworth, Allen and Greenough, Le Conte.



## METHODS OF INSTRUCTION.

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The Preparatory Curriculum naturally falls into six principal lines of study, viz., English, Latin, Greek, History, Mathematics, and Natural Science. These combine, in due proportion, the cultural, the disciplinary, and the practical elements of intermediate education. The two great divisions of modern study, the Classical and the Scientific, are accorded adequate and appropriate preparation. The subjects, facilities, and methods of the various departments are explained below.

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### I. THE ENGLISH LANGUAGE.

A thorough grounding in the principles of English Grammar is indispensable to the student's progress in the subsequent language studies. The continuous application of this knowledge in Composition, and the constant comparison with the forms and idioms of the Ancient Languages, prepare the way for the study of elementary Rhetoric, and the appreciative reading of English and American Literature. The aim is the clear, elegant, and forcible use of the mother tongue as the chief instrument of expression.

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### II. THE LATIN LANGUAGE.

The Inductive Method is used in the elementary instruction. The student investigates the formation of the language. The abstract rules of Syntax are learned from the analysis and synthesis of sentences. Careful drill is given in the declensions and conjugations, in the use of the moods and the sequence of tenses, in the ready reading of the Latin text, in sight reading and in accurate translation into idiomatic English. Attention is given to the important personal, historical, and political elements in the writings of Cæsar and Cicero. In Vergil, the student is introduced to the poetry, legend, religion, philosophy, and art of Rome. He is taught to investigate the allegorical, archæological, and mythical allusions of the Æneid, and to appreciate it as the mirror of the life of the Empire. Latin prosody is taught first from the text, and then from the grammar.

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### III. THE GREEK LANGUAGE.

The first half year of the Third Form is spent in acquiring sufficient knowledge of forms and inflections to commence the study of Xenophen's Anabasis. During the last half year special attention is given to the inflection and syntax

of nouns, pronouns, and adjectives. The reading of Xenophon is continued in the first term of the Fourth Year, and the forms and syntax of verbs made a special study. Homer is then read for one term and a half, and the difference between Homeric and Attic forms is noted. During the last half term Xenophon is reviewed, that the student may refresh his knowledge of Attic Greek and may not find the transition to College needlessly difficult. Almost daily drill is given in turning into Greek sentences based on the text of Xenophon.

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#### IV. HISTORY.

The course in History includes a survey of the History of the United States, England, Greece, and Rome. The aim is not so much to fill the student's mind with a collection of dates and events as to acquaint him with the life, the genius, the institutions, and the achievements of the respective peoples, and their part in the wider history of mankind. Students are encouraged to cultivate the historical imagination; to compare rare characteristics, arts, and religions, and to appreciate the noble ideals, the heroic struggles and sacrifices that have imparted imperishable worth to human institutions.

**Civil Government** is taught as a preparation for intelligent citizenship. The origin and growth of our institutions, the functions of the various departments of the National, State, and local governments, the political history of the people, the interpretation and construction of the Constitution, are presented and discussed.

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#### V. MATHEMATICS.

**Arithmetic.**—To students who are fitting themselves for business, a course is given in practical business Arithmetic, involving all the ordinary problems and practices in the business world. To those who are preparing for college or for teaching instruction is given in the theory and science of Arithmetic. Pupils are expected to master the principles and then to formulate their own rules.

**Algebra.**—The course extends through one period daily for one year, and includes a thorough knowledge of the fundamental principles, Factoring, Divisors and Multiples, Fractions, Equations, Involution, Evolution, Theory of Exponents, Radicals, and Quadratic Equations. Daily blackboard work serves to apply the principles taught. The student is required both to know the methods of the solution of problems and also to explain the operation to the class.

**Plane Geometry.**—The instruction consists in daily recitations for two terms on the Theorems and Problems given in the text-book, with original demonstrations of the same Propositions by the students from hints and figures given in the class-room. Besides this, considerable attention is given to the solution of original Propositions, and the application of principles thus learned to the solution of numerical problems.

**Book-keeping.**—A practical introduction to the science of accounts is secured in the term devoted to mastering the principles of Double Entry Book-keeping. Careful attention is given to business forms, to the usages of Banks, and to the elements of Commercial Law. The subject may be pursued in its more extended and intricate applications by a second term's work, open to properly qualified students.

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## VI. SCIENCE.

**Physical Geography** lays a foundation for subsequent work in all sciences. It surveys the earth's physiography, climate, atmosphere, fauna, flora, ocean tides and currents, and geological agencies. Special attention is given to the physical features of the United States. The subject is illustrated by drawings, photographs, colored and relief maps, and specimens from the Museum.

**Botany** is taught by text-book, field exercise, plant analysis, and weekly lectures. A brief outline is first obtained of plant structure, physiology, growth, and reproduction. The subject is then reviewed by daily drill in analyzing, recording, classifying, and preserving specimens. The recorded analysis of fifty plants is required. Lectures explaining special forms of vegetable growth, the flora of this country, the cultivation, uses, and history of plants complete the work.

**Physiology.**—Every effort is made to impart clear ideas of the structure, parts, and functions of the human body. Special attention is given to the chemistry of foods, the laws of health, the effects of stimulants and narcotics. Suggestions are constantly made as to poisons and their antidotes, the care of the sick, disinfection and sanitation, and accidents and emergencies. Charts, manikin, and preparations are used in class.

**Natural Philosophy.**—The student is thoroughly grounded in the elements of mechanics and physics. The apparatus of the College Laboratory is available for use. The historical beginnings of each subject, and subsequent development, are sketched in brief lectures. No pains are spared to familiarize the pupil with the laws of these sciences, by instruction, experiment, review, and repeated examination. The truth of principles is proved, except where the demonstration involves the mathematics of the higher course in College.

**Astronomy.**—Descriptive Astronomy discusses the earth's relations to the solar system, the masses, motions, and orbits of each member of it; the causes and consequences of at least five motions of the earth; general boundaries of the constellations of the Zodiac and northern heavens; the accepted theories of comets, meteors, and nebulae. Charts, star maps, globes, and other apparatus are used, and the student is afforded privileges of observation in the College Observatory.

**Geology.**—The student here masters the elements of lithological, structural, dynamic, and historical Geology. Specimens of various rocks and minerals are handled in class; their composition, characteristics, and place in nature are ex-



plained; the structure of the earth in its present form is studied; the history of its evolution, the age and characteristics of its strata, the chief geological features of each continent, and the forces at work, and that have worked to produce change, are considered.

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## VII. ORATORY.

**Class Exercises.**—Members of the Fourth Form prepare and deliver two original orations each term. All other students have regular exercises in Composition and Declamation throughout the year. Public exercises are held in Bucknell Hall on Saturday morning, before the assembled faculties and students of the Institute and the Academy. Visitors are cordially welcomed to these exercises.

In addition to the private rehearsals for the work above indicated, all students receive weekly instruction in Elocution. The course includes careful drill in the Elementary sounds, in Articulation, and in Expression; in Analytical Reading, including the Bible and Hymns; and the study of Shakspeare.

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## VIII. SPECIAL BRANCHES.

**Bible Study.**—The study of the Bible is pursued as a regular weekly recitation throughout the Second, Third, and Fourth Forms, in both courses of study. A scheme of study is arranged at the beginning of each year. It is intended that the successive schemes for the various years of the course will cover the Life of Christ, the Historical portions foreshadowing the Christ, and the History of the Apostolic Church.

**Literature Study.**—The reading and study of the masterpieces of English and American Literature is maintained in the Second, Third, and Fourth Forms, by means of weekly recitations and conferences. The work required is identical with the "Scheme of Uniform Entrance Examinations in English Language and Literature," adopted by the "Association of Colleges and Preparatory Schools of the Middle States and Maryland." It comprises (a) careful readings of representative works of certain authors, as literature; (b) thorough study as to "subject-matter, form, and structure" of other selections. Regular examinations will determine the student's proficiency.

**The Study of Music** may be pursued by Academic students under the instruction of Professor E. Aviragnet and his Assistants, of the School of Music.

**Drawing.**—All students of the Academy may receive throughout the year weekly lessons in Free-hand Drawing and Penmanship without extra charge. Special individual instruction in Drawing is afforded at twenty-four dollars per annum.

## IX. HEALTH AND PHYSICAL CULTURE.

The **Tustin Gymnasium** affords opportunity for physical exercise in the winter and during inclement weather at other seasons. The Directors of the Gymnasium give regular class exercises to the students of the Academy. Attendance upon physical training in the Gymnasium is obligatory during the Winter Term.

The **Athletic Association** of the Academy has been formed to encourage and regulate athletic sports. The association is allowed to arrange match games with other similar bodies by first securing the consent of the Principal.

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### PUBLIC EXHIBITIONS.

#### THIRD FORM.

The Public Exhibition of the Third Form in Declamation will take place on Saturday evening, April 24, 1897, in Bucknell Hall.

#### FOURTH FORM.

The closing exercises of the Academy will be the Public Exhibition in Oratory of the Fourth Form, on Tuesday morning, June 22, 1897.

## GENERAL INFORMATION.

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### ADVANTAGES.

To the student seeking preparation for College, the Academy offers unusual inducements. Its promixity to the College secures to him an atmosphere of study, acquaintance with the guides and companions of his future course, and the benefit of numerous literary exercises to be found only in College towns. He has access to the College Library and Reading-Room. The Academy is designed to fit its pupils thoroughly for College, for Business, or for Teaching. It aims to lay broad and solid foundations for all subsequent scholarly culture, and for the successful conduct of every-day affairs.

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### GOVERNMENT.

Students are encouraged to regard self-government as the only true government. It will be the constant endeavor to secure uprightness of character, gentlemanly deportment, and diligent application to work, by kind treatment, and high standards in conduct and study. The Academy cannot knowingly accept or retain incorrigibles.

#### I. ADMINISTRATION.

1. The general control of the Academy is vested in the President of the University.

2. The government of the Academy, subject to such control, rests with the Principal of the Academy.

3. The government of each Hall is vested in the Instructor in charge, who resides in the Hall and enforces regulations for the Hours of Study, Academy Property, Hygienic Precautions, and General Deportment, and such other prudential regulations as may be ordered by the joint concurrence of the President of the University and the Principal of the Academy.

4. Each Instructor will have charge of his class with reference to attendance upon recitations. In case any student is absent twice in any one term, without good excuse, from recitations, or from his room in the evening after the hour of seven, it shall be the duty of the Principal of the Academy to give information of the fact to the parent or guardian of the pupil so offending.

#### II. VIOLATION OF RULES.

1. Any officer of the Institution becoming cognizant of violation of regulations by any pupil shall report the same to the Principal of the Academy, who shall make a record of the fact in a book provided for the purpose. Any second violation by the same pupil shall also be reported to the President of the University; and if, in the judgment of the President of the University, and the



Principal of the Academy the offense be of sufficient gravity, the parent or guardian of the offending pupil shall be notified.

2. Violations of these and other prudential regulations shall be punished by private reprimand, or by reprimand in the presence of the students of the Academy by the Principal, or by reprimand before the University by the President, or by suspension, or by expulsion, according to the gravity or repetition of the offense.

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## BUILDINGS AND ROOMS.

The Academy Buildings are described in detail in the introductory pages of this Catalogue.

**The Main Building** contains, besides its accommodations for other school and boarding purposes, furnished rooms for students. These rooms are designed to accommodate two students each, and are twenty feet by twelve feet, and fourteen feet high. They are subdivided into a study room twelve feet by ten feet, and a dormitory nine feet square. The dormitory contains a double bed with woven wire mattress. Both rooms are provided with all necessary furniture.

**The East Hall** contains combined study and sleeping rooms, each designed for two students. These rooms are fifteen feet by twelve feet, with high ceilings, and contain two commodious closets and two single wire mattress beds with all necessary furniture.

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## UNFURNISHED ROOMS.

The Academy has a number of unfurnished rooms for the accommodation of students of mature years and of limited means. No attention by servants is given to these rooms, nor are lights supplied. Two students occupy a study room in common. The dormitories are provided with a double-spring bedstead. All other furnishing is to be done by the occupants. While second-hand articles of furniture may be obtained here, it will be to the student's advantage to bring from home bedding and carpets. The dimensions of the study rooms are ten feet by twelve feet; of the dormitory, nine feet by nine feet.

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## ARTICLES REQUIRED.

Each student should be provided with an umbrella, overshoes, table napkins, towels, soap, and other articles usually required for personal comfort. All articles for the laundry should be marked with the owner's name.

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## BOARDING.

All students from a distance will occupy rooms and will board in the Academy, except for reasons jointly satisfactory to the President of the University and the Principal of the Academy.

The Principal and his family, the instructors, and the Matron live in the

building, take their meals with the boarders, and strive in all possible ways to secure the welfare and happiness of the students. The Instructors occupy rooms adjacent to the students' apartments. The appointments of the Dining Room, the character of the table supplies, the household service in general, are designed to furnish the comforts of a first-class boarding-house. So far as may be warranted by the deportment of the students, there will be absent from the home-life of the school all needless uniformity in irksome limitations, which disregard the reasonable individual preference of pupils.

The Academy gives to furnished rooms daily and complete attention, provides and washes all bedding and bed clothing, and supplies and cares for all lights.

Engagements for board and rooms are expected to continue without change to the end of the school year for which they are made.

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### APPLIANCES.

The Academy is in possession of excellent apparatus for instruction. A select Reference Library, containing an Encyclopedia, Lexicons, Dictionaries, Atlases, and various other helps, is accessible to students at all hours. The Classical Recitation Room is provided with Kiepert's Wall Maps of Ancient Geography, and with Reinhard's Album of Classical Antiquities, mounted. Metric apparatus, Maps and Globes render assistance in other directions.

The apparatus of the College also is accessible to the classes for purposes of experiment and illustration.

The College Library, numbering 16,000 volumes, is available for all students.

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### STUDY-ROOM.

In order to insure favorable conditions of study, the Academy maintains a public study-room for the use of day-pupils and such boarding pupils as are thereby better accommodated in the preparation of their lessons. This room is under the constant supervision of the Proctor or one of the instructors of the Academy. Except when engaged in recitation day pupils and such others as are assigned thereto, are required to occupy seats in the study-room during the day study hours, unless excused for good reason. A record of such attendance is kept, and enters into the pupil's standing at the end of the term.

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### HOURS.

The time devoted to study and recitation amounts to nine hours every week-day, except Saturday, when it is only one hour. This time should be sacred to its purpose. Parents of the day pupils are requested to co-operate with the school in securing attention to evening study hours, and to avoid furnishing excuses or granting occasions for absence.

Students from a distance should be in Lewisburg on the day preceding the opening of each term, and no student should leave until the term has closed. Punctuality in attendance is essential to success in school work.

For terms and vacations, see Calendar of the University, page 133.

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## STANDING AND PROMOTIONS.

The weekly averages of marks for recitations are recorded, and also failures in conduct and attendance. The scale for such markings ranges from 10, or perfect, to 0, or inexcusable failure. Unexcused absences count as zero.

Monthly and term examinations are held in the studies thus far completed, and term reports of the average in scholarship, attendance, and conduct of each student are sent to parents or guardians by the Principal.

No student is promoted to the next higher class whose average in any study is less than 7.

Students who complete the Preparatory Courses of Study are admitted to standing in corresponding divisions of the Freshman Class in the College, upon the Principal's certificate, without examination.

All students who complete in a satisfactory manner either the Classical or the Scientific Course of Study, and who have sustained irreproachable characters during their school residence, shall be entitled to a certificate setting forth their proficiency in the branches studied.

Students attaining an average standing of 9 are encouraged to take work additional to the Regular Courses of Study.

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## PRIZES.

### THE HARRY S. HOPPER PRIZE.

Mr. Harry S. Hopper, of Philadelphia, Chairman of the Board of Trustees, offers an annual prize for excellence in Composition.

This prize for 1896 was awarded to Edward Bell.

### THE REV. D. P. LEAS PRIZE.

Rev. David P. Leas, of Philadelphia, Treasurer of Bucknell University, offers an annual prize to that member of the Third Form who shall excel in the Annual Exhibition of the Third Form in Declamation.

This prize in 1896 was awarded to William Devitt.

### THE WILLIAM E. MARTIN PRIZE.

Professor William E. Martin offers an annual prize to that member of the Fourth Form who shall pronounce the best oration at the Academic Graduating Exhibition.

This prize for 1896 was awarded to Edward Bell.



## LITERARY SOCIETIES.

**Hermenia ; Adelpia.**—These are voluntary organizations of students for mutual improvement in Literary and Oratorical exercises. They have large and convenient halls in the Academy building, where they hold their meetings on Friday evenings.

## RELIGIOUS SERVICES.

The duties of each day are opened with devotional exercises in Bucknell Hall, at which all students are required to be present. Devotional exercises are also held in the Academy every evening, just before the evening study hour. All academic students residing on the University campus are required to attend these exercises.

Regular attendance upon public worship at some Church in town on Sunday morning is required ; also upon services on Thanksgiving Day, and the Day of Prayer for Colleges. Attendance upon Sunday-schools and mid-week prayer-meetings, while voluntary, is strongly urged upon students.

The Academic students maintain a branch of the Young Men's Christian Association, which holds a weekly prayer-meeting on Tuesday evenings.

## EXPENSES.

## EAST HALL.

*Per Annum.*

Tuition, Board, Furnished Rooms, Heat, Lights, Care, Washing, and Incidentals, . . . . .	\$230 00
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## MAIN HALL.

Tuition, Board, Unfurnished Rooms, Heat, Washing, and Inci- dentals, . . . . .	185 00
Tuition, and Incidentals to Day Pupils, . . . . .	55 00

All charges are payable to the Registrar of the University in advance, at the beginning of each term, or by the 15th of September, January, and April.

No student is entitled to his place in his class until he has made settlement for the term bills.

An extra charge will be made for washing more than 12 pieces per week.

Free scholarships, covering tuition, are provided in all the Departments of the University for the children of Ministers of the Gospel *in actual service*.

The expenses for Music and Printing for Exhibitions and Anniversary occasions are paid by the classes for which such expenses are incurred.

For information respecting the Academy, address the President of the University, John H. Harris, Ph. D., LL. D., or the Principal, Thomas A. Edwards, A. M.

# THE INSTITUTE.

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## INSTRUCTORS AND OTHER OFFICERS.

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JOHN HOWARD HARRIS, PH. D., LL. D.,

PRESIDENT OF THE UNIVERSITY AND INSTRUCTOR IN PSYCHOLOGY AND ETHICS.

MRS. KATHERINE B. LARISON, A. M., PRINCIPAL,

AND INSTRUCTOR IN ENGLISH LITERATURE.

ELYSEE AVIRAGNET, A. M., MUS. DOC.,

VOCAL AND INSTRUMENTAL MUSIC AND THE ROMANCE LANGUAGES.

HARRIET CLARE ARMITAGE,

ENGLISH, ELOCUTION, AND GYMNASTICS.

JULIET AIKIN,

INSTRUMENTAL MUSIC.

ELIZABETH COLLINS EDDELMAN, SC. B.,

LATIN AND GERMAN.

ELIZA BELL, PH. B.,

HISTORY AND ENGLISH.

JESSIE JUNE WHEELER, A. B.,

MATHEMATICS.

ANNA MARGUERITE MILLER,

(PHILADELPHIA SCHOOL OF DESIGN FOR WOMEN.)

DRAWING AND PAINTING.

KATHARINE ARMISTEAD CRAWFORD, MUS. B.,

VOCAL AND INSTRUMENTAL MUSIC.

ALBERT BURNS STEWART, A. M.,

MATHEMATICS.

LLEWELLYN PHILLIPS, A. M.,

GREEK.

WILLIAM ALBERT KAUFFMAN, A. B.,  
SCIENCE.

WILLIAM CHRISTIAN GRETZINGER, PH. B.,  
REGISTRAR OF THE UNIVERSITY.

CHARLES R. CASE,  
CARE OF THE INSTITUTE GROUNDS AND BUILDINGS.

MRS. CHARLES R. CASE,  
MATRON.

## DIRECTORY OF THE ALUMNÆ.

### OFFICERS OF THE ALUMNÆ.

*President*, MISS SARA VAN GUNDY.  
*Vice-President*, MISS EMMA EEG.  
*Recording Secretary*, MRS. D. B. MILLER.  
*Corresponding Secretary*, MISS MABEL THOMAS, Lewisburg, Pa.  
*Treasurer*, MRS. E. SHORKLEY.

*Board of Managers*,

THE OFFICERS OF THE ASSOCIATION AND MRS. KATHERINE B. LARISON AND  
MRS. J. R. LOOMIS.

### OFFICERS OF THE LEWISBURG ALUMNÆ CLUB.

*President*, MRS. WM. C. GRETZINGER.  
*Vice-President*, MRS. LEROY STEPHENS.  
*Secretary*, MISS ANNIE EVANS.  
*Treasurer*, MISS FLORENCE A. VAN DYKE.  
*Correspondent with Philadelphia Alumnae Club*, MISS MABEL THOMAS.

### OFFICERS OF THE PHILADELPHIA ALUMNÆ CLUB.

*President*, MRS. O. W. SPRATT.  
*Vice-President*, MRS. F. W. TUSTIN.  
*Recording Secretary*, MISS CARRIE V. LLOYD, PH. B.  
*Corresponding Secretary*, MISS NELLIE WILSON CONARD, PH. B.,  
748 N. Fortieth Street, Philadelphia, Pa.  
*Treasurer*, MRS. ANNA LLOYD REILLY.

The Principal of the Institute will esteem it a favor if any graduate who changes her residence will give notice of her new address. She will also be grateful for any information that will assist in making the directory of the graduates and former students complete.



## GRADUATING CLASS.

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CLASS OF '96.

NAME.	RESIDENCE.
BELLE BARTOL,	<i>Lewisburg.</i>
MIRIAM ADLAM BUCHER,	<i>Lewisburg.</i>
FANNIE MARGARET CASE,	<i>Lewisburg.</i>
GERTRUDE ELECTA CHURCH,	<i>Union City.</i>
GERTRUDE ELEANOR KASE,	<i>Danville.</i>
EMMA ELIZABETH KUNKLE,	<i>Newberry.</i>
RACHEL JANE NOLL,	<i>Lewisburg.</i>
MARGARET ISABELLE NORTON,	<i>Lewisburg.</i>
MARGARET OLIVIA ROSS,	<i>Mifflinburg.</i>
CLARISSA FISHER RUSSELL,	<i>Lewisburg.</i>
EMMA DIRUF SEILER,	<i>Lewisburg.</i>
BERTHA CELESTINE WATKINS,	<i>Scranton.</i>
MARY OLIVE WILLIAMSON,	<i>Salladasburg</i>

## NAMES OF STUDENTS.

### GRADUATE STUDENTS.

NAME.	RESIDENCE.	ROOM.
BELLE BARTOL,	<i>Lewisburg.</i>	Prof. Bartol
MARGARET CLINGAN,	<i>Lewisburg.</i>	Mrs. Mary Clingan
BEULAH HAYES,	<i>Lewisburg.</i>	Hon. Alfred Hayes

### SENIOR CLASS.

NAME.	RESIDENCE.	ROOM.
MABEL EFFIE BATTEN,	<i>Auburn, N. J.</i>	Institute
ELBINA LAVINIA BENDER,	<i>Lewisburg.</i>	Mr. Geo. J. Bender
SARAH MARTHA BLACK,	<i>Lewisburg.</i>	Mrs. Annie M. Black
RUTH NORA DAVIS,	<i>Allenwood.</i>	Rev. L. C. Davis
ALICE HELEN FOCHT,	<i>Lewisburg.</i>	Mrs. Susan B. Focht
ANNA CURZON JUDD,	<i>Lewisburg.</i>	Rev. J. T. Judd
MARY ANNA KLINE,	<i>Winfield.</i>	Mr. Geo. M. Kline
EMMA JOSEPHINE LAWSHE,	<i>Lewisburg.</i>	Mr. R. A. Lawshe
ELIZA JOHNSTON MARTIN,	<i>Lewisburg.</i>	Prof. Martin
MARGUERITE O'DONNELL,	<i>Texarkana, Ark.</i>	Institute
MARGARET M. RAIKE,	<i>Doylestown.</i>	Institute
GERTRUDE WILBURN ROOS,	<i>Lewisburg.</i>	Mr. Charles Roos
ELIZABETH PENNYPACKER ROSSITER,	<i>Pottstown.</i>	Institute
EDNA SCHUYLER SHIRES,	<i>Limestoneville.</i>	Institute

NAME.	RESIDENCE.	ROOM.
SUSAN RODENBAUGH SLIFER,	<i>Lewisburg.</i>	Mr. G. M. Slifer
GERTRUDE STANNERT,	<i>Lewisburg.</i>	Mr. F. Stannert
MABEL WELLS,	<i>Wilcox.</i>	Institute
MARGARET MALVINA WAGNER,	<i>Lewisburg.</i>	Mrs. E. A. Wagner

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## THE FOURTH YEAR CLASS.

NAME.	RESIDENCE.	ROOM.
MINETTA MAY ANDERSON,	<i>Lewisburg.</i>	Mrs. Margaret Anderson
CATHERINE RUTH BOWER,	<i>Lewisburg.</i>	F. E. Bower, Esq.
MARIA MAUD GODDARD,	<i>Philadelphia.</i>	Mrs. Mary Clingan
NELLE EVA HOWER,	<i>Lewisburg.</i>	Mr. Jacob Hower
KATHERINE MOTT JOHNSON,	<i>Lewisburg.</i>	Prof. B. R. Johnson
LOUISE WEIMER LAWSHE,	<i>Lewisburg.</i>	Mr. R. A. Lawshe
GRACE CELESTA MOSES,	<i>Lewisburg.</i>	Rev. William Moses
HANNAH VIRGINIA NOYES,	<i>Westport.</i>	Institute
EDITH LEE PHILLIPS,	<i>Plymouth.</i>	Institute
ISABELLA SCHWEIER,	<i>Mifflintown.</i>	Institute
ELIZA SLIFER WENDEL,	<i>Lewisburg.</i>	Mr. H. M. Wendel

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## THE THIRD YEAR CLASS.

NAME.	RESIDENCE.	ROOM.
JESSIE MARGUERITE BIRKBECK,	<i>Freeland.</i>	Institute
MARGARET MARIE CAMPBELL,	<i>McKeesport.</i>	Institute
ALICE FLORA DUNHAM,	<i>Sheffield.</i>	Institute



NAME.	RESIDENCE.	ROOM
NELLIE JEANETTE DUNKLE,	<i>Lewisburg.</i>	Mr. F. M. Dunkle
HELEN LOUISE EARLE,	<i>Lewisburg.</i>	Rev. I. N. Earle
ELIZABETH EVANS,	<i>Freeland.</i>	Institute
ANNABEL HANNA,	<i>Lewisburg.</i>	Rev. T. A. T. Hanna
MIRIAM EVANGELINE HANNA,	<i>Lewisburg.</i>	Rev. T. A. T. Hanna
JENE DONALD HIMMELREICH,	<i>Lewisburg.</i>	Mr. S. H. Himmelreich
SARAH ETHEL JUDD,	<i>Lewisburg.</i>	Rev. John T. Judd
ELIZABETH KREMER,	<i>Lewisburg.</i>	Mr. J. K. Kremer
MARIE LOUISE LEISER,	<i>Lewisburg.</i>	Andrew A. Leiser, Esq.
MARY EMILY MCCREIGHT,	<i>Lewisburg.</i>	Mr. J. S. McCreight
CHARITY MARGARET RUNYAN,	<i>Lewisburg.</i>	Mr. Milton Runyan
CHARLOTTE ELLIOT SHIELDS,	<i>Lewisburg.</i>	Mr. William Shields
ALBERTA PEARL STAPLETON,	<i>Lewisburg.</i>	Rev. A. Stapleton
HARRIET ELSPETH VAUGHAN,	<i>Newark.</i>	Institute
MARIAN MAY WINGERT,	<i>Lewisburg.</i>	Mr. J. H. Wingert
MARTHA WOLFE,	<i>Lewisburg.</i>	Mrs. Martha E. Wolfe
MARY FRANCIS WOODS,	<i>Lewisburg.</i>	Mr. Geo. D. Woods

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 THE SECOND YEAR CLASS.

NAME.	RESIDENCE.	ROOM.
MARY FLORENCE HIGGINS,	<i>Lewisburg.</i>	Mr. D. P. Higgins
LEAH LEWIS,	<i>Carlisle.</i>	Institute
CLARA JANE SLIFER,	<i>Lewisburg.</i>	Mrs. C. V. Slifer

## PURSUING SELECT STUDIES.

NAME.	RESIDENCE.	ROOM.
ELEANOR ELIZABETH BASTRESS,	<i>Sunbury.</i>	Mr. A. L. Bastress
LENA DAVENPORT BURKE,	<i>Northumberland.</i>	Mr. S. D. Burke
GRACE HELLENE CALLENDER,	<i>Olyphant.</i>	Institute
GRACE ALICE DEWITT,	<i>Pittsburg.</i>	Institute
ARIE MABEL DUNKLEBERGER,	<i>Lewisburg.</i>	Mr. R. Weidensaul
MABEL ROASELTHA FARLEY,	<i>Milton.</i>	Mr. John Farley
SARAH CLARK FOUST,	<i>Milton.</i>	Mr. Tilman Foust
MARY LOUISA GILLIECE,	<i>Milton.</i>	Mrs. L. Gilliece
GERTRUDE GRANT,	<i>Ridgway.</i>	Institute
MARGARET BEAVER GROFF,	<i>Lewisburg.</i>	Prof. George G. Groff
MARY R. HARRIS,	<i>Milton.</i>	Home
FLORENCE HEINEN,	<i>Milton.</i>	Mrs. A. R. Heinen
ANGELENE FREDERICA HAUCK,	<i>Lewisburg.</i>	Mrs. E. A. Hauck
ANNIE JANE JONES,	<i>Plymouth.</i>	Institute
CAROLINE ELIZABETH KELLY,	<i>Lewisburg.</i>	Mrs. G. C. Kelly
ELIZABETH KREMER,	<i>Lewisburg.</i>	Mr. J. K. Kremer
MARGARET MONTGOMERY,	<i>McEwensville.</i>	Institute
MABEL FLORENCE MORGAN,	<i>Winton.</i>	Institute
AIDA VIRGINIA MYERS,	<i>Lewisburg.</i>	Mrs. Valeria R. Myers
ADA ELECTA PENNYPACKER,	<i>Norristown.</i>	Institute
ELEANOR POTTER,	<i>Lewisburg.</i>	Mr. S. Potter
JENNIE KREAMER REIFSNYDER,	<i>Millheim.</i>	Mr. J. H. Reifsnyder

NAME.	RESIDENCE.	ROOM.
ALICE KAUFFMAN SCHAEFFER,	<i>Fleetwood.</i>	Institute
FRANCES GERTRUDE SCOTT,	<i>Spring Garden.</i>	Institute
JESSIE THEKLA STEINER,	<i>Lewisburg.</i>	Mr. F. Steiner
BIRDIE LEONA TAGGART,	<i>Emporium.</i>	Institute
JEANETTE AYARS TAYLOR,	<i>Montrose.</i>	Institute
MARY VORIS,	<i>Lewisburg.</i>	Mrs. H. W. Voris
BELLE WEIGEL,	<i>Spring Garden.</i>	Institute

SUMMARY.

Graduate Students, . . . . .	3
Seniors, . . . . .	18
Fourth Year, . . . . .	11
Third Year, . . . . .	20
Second Year, . . . . .	3
Special, . . . . .	29
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Total in the Institute, . . . . .	84
In other Departments, . . . . .	340
—	
Total in all Departments, . . . . .	424



## COURSES OF STUDY.

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The Bucknell Institute offers to young women three courses of study, each extending over five years. Students are admitted to advanced standing, if, upon examination, they are found to have satisfactory knowledge of the branches which the class they propose to enter has already completed.

Credentials from Graded Schools are accepted in the studies of the First and Second Years.

Credentials are accepted for the Third, Fourth, and Senior Years from schools whose curricula are equivalent to that of Bucknell Institute; also from accredited private teachers, in studies which are *continued* after entrance.

### I. THE LITERARY COURSE.

The Literary Course embraces in MATHEMATICS, Arithmetic, common and advanced, Algebra and Geometry, plane and solid, and Higher Algebra with Trigonometry and Analytical Geometry as electives; in LATIN, two years *required*, and a third year elective with German or French; in GERMAN and FRENCH, one year each or two of either; and in ITALIAN and SPANISH, an optional course; in SCIENCE, Physical Geography, Botany, Astronomy, Physics, Physiology, Chemistry, and Geology. In these branches the students have the advantages afforded by the College Observatory, Laboratory, and Museum. The course also includes Rhetoric, Composition, Civil Government, Psychology, and Ethics.

Special attention is given to History and Literature, to the former of which six, and to the latter of which three terms are devoted.

### II. THE CLASSICAL COURSE.

The Classical Course embraces, in MATHEMATICS, Arithmetic, Algebra, Geometry, plane and solid, University Algebra, Trigonometry, and Analytical Geometry; in LATIN, Grammar and Composition, Cæsar, Vergil, Cicero's Orations, Cicero de Senectute et de Amicitia, Livy, and Paternus, in all, four years; in GREEK, Grammar and Composition, Xenophon's Anabasis, Homer's Iliad, Lysias' Orations, Herodotus, Homer's Odyssey, and the Greek Testament, in all, three years; in History, General History, and Greek and Roman History.

Students who complete the Classical Course are admitted to the Sophomore Class in College as candidates for the first degree in Arts.

### III. THE LATIN SCIENTIFIC COURSE.

The Latin Scientific Course corresponds to the Classical Course, except that scientific subjects are substituted for the first two years of Greek, and German for the third year of Greek.

Students who complete the Latin Scientific Course are admitted to the Sophomore Class in College as candidates for the first degree in Philosophy.

## SELECT STUDIES.

Students who do not wish to pursue a course of study may elect such subjects in connection with the recitations of the regular classes as they may be qualified to pursue.

## REQUIREMENTS FOR ADMISSION.

The required age for admission to the first-year class or to pursue select studies is twelve years.

The candidate for admission must present testimonials of good moral character.

## CURRICULA.

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### I. THE LITERARY COURSE.

#### FIRST YEAR.

- |  |   |
|--|---|
| <p>I. TERM—Arithmetic,<br/>United States History,<br/>English Grammar,</p> | <p>Wentworth's Grammar School,<br/>Fiske,<br/>Reed and Kellogg's Higher Lessons.</p>  |
| <p>II. TERM—Arithmetic,<br/>General History,<br/>English Grammar,</p>      | <p>Wentworth's Grammar School,<br/>Barnes,<br/>Reed and Kellogg's Higher Lessons.</p> |
| <p>III. TERM—Arithmetic,<br/>General History,<br/>English Language,</p>    | <p>Wentworth's Grammar School,<br/>Barnes,<br/>Analysis and Composition.</p>          |

#### SECOND YEAR.

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|--|--|
| <p>I. TERM—Latin—Lessons,<br/>Rhetoric,<br/>Higher Arithmetic,</p>                   | <p>Tuell and Fowler,<br/>Hill's Elements,<br/>Wentworth and Hill.</p>    |
| <p>II. TERM—Latin—Lessons,<br/>Grammar,<br/>History of Greece,<br/>Book-keeping,</p> | <p>Tuell and Fowler,<br/>Allen and Greenough,<br/>Myers,<br/>Bryant.</p> |
| <p>III. TERM—Latin,<br/>Physical Geography,<br/>Botany,<br/>History of Rome,</p>     | <p>Collar's Gate to Cæsar,<br/>Appleton,<br/>Gray,<br/>Myers.</p>        |

#### THIRD YEAR.

- |  |  |
|--|--|
| <p>I. TERM—Cæsar,<br/>Natural Philosophy,<br/>English History,</p> | <p>Harper and Tolman,<br/>Sharpless and Philips,<br/>Guest.</p>                |
| <p>II. TERM—Vergil,<br/>Algebra,<br/>Astronomy,</p>                | <p>Harper and Miller,<br/>Wentworth's Elements,<br/>Sharpless and Philips.</p> |
| <p>III. TERM—Vergil,<br/>Algebra,<br/>Civil Government,</p>        | <p>Harper and Miller,<br/>Wentworth's Elements,<br/>Macy.</p>                  |



## FOURTH YEAR.

- |   |  |
|---|--|
| I. TERM—Vergil, <i>or</i><br>German,<br>Algebra, Quadratics,<br>Physiology,                             | Harper and Miller,<br>Schmitz,<br>Wentworth's,<br>Walker.                            |
| II. TERM—Cicero, <i>and</i><br>Latin Prose Composition, <i>or</i><br>German,<br>Geometry,<br>Chemistry, | Allen and Greenough,<br>Daniell,<br>Schmitz—Ausmeiner Welt,<br>Wentworth,<br>Remsen. |
| III. TERM—Cicero, <i>or</i><br>German, <i>and</i><br>Geometry,<br>Geology,                              | Allen and Greenough,<br>Schmitz—Peter Schlemihl,<br>Wentworth,<br>Le Conte.          |

## SENIOR YEAR.

- |  |   |
|--|---|
| I. TERM—Psychology,<br>English Literature,<br>English Classics,<br>French, <i>or</i><br>German, <i>or</i><br>Higher Algebra, <i>and</i><br>Geometry, | McCosh,<br>Outlines, and Pancoast,<br><br>German Classics,<br>Wells,<br>Bartol. |
| II. TERM—English Literature,<br>English Classics,<br>French, <i>or</i><br>German, <i>or</i><br>Trigonometry,   | Outlines, and Pancoast,<br><br>German Classics,<br>Bowser.                      |
| III. TERM—Ethics,<br>American Literature,<br>American Classics,<br>French, <i>or</i><br>German, <i>or</i><br>Analytical Geometry.                    | Hopkins,<br>Outlines,<br><br>German Classics,<br>Nichol.                        |

## II. THE CLASSICAL COURSE.

## FIRST YEAR.

- |   |   |
|---|---|
| I. TERM—Arithmetic,<br>United States History,<br>English Grammar, | Wentworth's Grammar School,<br>Fiske,<br>Reed and Kellogg's Higher Lessons. |
| II. TERM—Arithmetic,<br>General History,<br>English Grammar,      | Wentworth's Grammar School,<br>Barnes,<br>Reed and Kellogg.                 |

- |  |   |
|--|---|
| III. TERM—Arithmetic,<br>General History,<br>English Language, | Wentworth's Grammar School,<br>Barnes,<br>Analysis and Composition. |
|--|---|

**SECOND YEAR.**

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|---|--|
| I. TERM—Latin—Lessons,<br>Rhetoric,<br>Higher Arithmetic,                         | Tuell and Fowler,<br>Hill's Elements,<br>Wentworth and Hill.   |
| II. TERM—Latin—Lessons,<br>Grammar,<br>History of Greece,<br>Book-keeping,        | Tuell and Fowler,<br>Allen and Greenough,<br>Myers,<br>Bryant. |
| III. TERM—Latin,<br>Physical Geography,<br>Elementary Botany,<br>History of Rome, | Collar's Gate to Cæsar,<br>Appleton,<br>Gray,<br>Myers.        |

**THIRD YEAR.**

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|--|--|
| I. TERM—Natural Philosophy,<br>Cæsar's Commentaries,<br>Greek—Lessons, | Sharpless and Philips,<br>Harper and Tolman,<br>White's First Greek Book.                  |
| II. TERM—Algebra,<br>Vergil's Æneid,<br>Greek—Lessons,<br>Grammar,     | Wentworth's Elements,<br>Harper and Miller,<br>Gleason's Gate to the Anabasis,<br>Goodwin. |
| III. TERM—Algebra,<br>Vergil's Æneid,<br>Xenophon's Anabasis,          | Wentworth's Elements,<br>Harper and Miller,<br>Goodwin.                                    |

**FOURTH YEAR.**

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|---|---|
| I. TERM—Algebra, Quadratics,<br>Latin—Vergil's Æneid,<br>Prosody,<br>Xenophon's Anabasis,<br>Greek Prose Composition, | Wentworth's Elements,<br>Harper and Miller,<br>Harper and Miller,<br>Goodwin,<br>Harper and Castle. |
| II. TERM—Plane Geometry,<br>Latin—Cicero's Orations,<br>Prose Composition,<br>Homer's Iliad,                          | Wentworth,<br>Allen and Greenough,<br>Daniell,<br>Seymour.  |
| III. TERM—Plane Geometry,<br>Cicero's Orations,<br>Greek—Homer's Iliad,<br>Prose Composition,<br>Xenophon's Anabasis, | Wentworth,<br>Allen and Greenough,<br>Seymour,<br>Harper and Castle,<br>Goodwin.                    |

## SENIOR YEAR.

- I. TERM— { Geometry, Practical Ethics,  
                   { Algebra, Hygiene,  
                   Cicero de Senectute, Elocution,  
                   { Odyssey, English Composition,  
                   { Greek Prose Composition, Lectures on the Essay.
- II. TERM— { Trigonometry, Derivatives,  
                   { Algebra, Elocution,  
                   Livy, English Composition.  
                   { Herodotus and Thucydides,  
                   { Greek Testament.
- III. TERM—Analytical Geometry, Chemistry,  
                   Paterculus and Pliny, Elocution,  
                   { Lysias, English Composition.  
                   { Greek Testament.
- 

## III. THE LATIN SCIENTIFIC COURSE.

## FIRST YEAR.

- I. TERM—Arithmetic, Wentworth's Grammar School,  
                   United States History, Fiske,  
                   English Grammar, Reed and Kellogg's Higher Lessons.
- II. TERM—Arithmetic, Wentworth's Grammar School,  
                   General History, Barnes,  
                   English Grammar, Reed and Kellogg's Higher Lessons.
- III. TERM—Arithmetic, Wentworth's Grammar School,  
                   General History, Barnes,  
                   English Language, Analysis and Composition.

## SECOND YEAR.

- I. TERM—Latin Lessons— Tuell and Fowler,  
                   Rhetoric, Hill's Elements,  
                   Higher Arithmetic, Wentworth and Hill.
- II. TERM—Latin—Lessons, Tuell and Fowler,  
                   Grammar, Allen and Greenough,  
                   History of Greece, Myers,  
                   Book-keeping, Bryant.
- III. TERM—Latin, Collar's Gate to Cæsar,  
                   Physical Geography, Appleton,  
                   Elementary Botany, Gray,  
                   History of Rome, Myers.



## THIRD YEAR.

- |            |  |   |
|------------|--|---|
| I. TERM—   | Cæsar's Commentaries,<br>Natural Philosophy,<br>English History, | Harper and Tolman,<br>Sharpless and Philips,<br>Guest.                |
| II. TERM—  | Algebra,<br>Vergil's Æneid,<br>Astronomy,                        | Wentworth's Elements,<br>Harper and Miller,<br>Sharpless and Philips. |
| III. TERM— | Algebra,<br>Vergil's Æneid,<br>Civil Government,                 | Wentworth's Elements,<br>Harper and Miller,<br>Macy.                  |

## FOURTH YEAR.

- |            |  |  |
|------------|--|--|
| I. TERM—   | Algebra, Quadratics,<br>Latin—Vergil's Æneid,<br>Prosody,<br>Physiology,                 | Wentworth's Elements,<br>Harper and Miller,<br>Allen and Greenough,<br>Walker. |
| II. TERM—  | Plane Geometry,<br>Latin—Cicero's Orations,<br>Prose Composition,<br>English Literature, | Wentworth,<br>Allen and Greenough,<br>Daniell,<br>Outlines, and Pancoast.      |
| III. TERM— | Plane Geometry,<br>Cicero's Orations,<br>Geology,  | Wentworth,<br>Allen and Greenough,<br>Le Conte.                                |

## SENIOR YEAR.

- |            |  |   |
|------------|--|---|
| I. TERM—   | { Geometry,<br>Algebra,<br>Cicero de Senectute,<br>German, | Lectures on the Essay,<br>Practical Ethics,<br>Hygiene,<br>Elocution,<br>English Composition. |
| II. TERM—  | { Trigonometry,<br>Algebra,<br>German,<br>Livy,            | Derivatives,<br>Elocution,<br>English Composition.  |
| III. TERM— | Analytical Geometry,<br>Paterculus and Pliny,<br>German,   | Chemistry,<br>Elocution,<br>English Composition.  |

## METHODS OF INSTRUCTION.

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### I. PSYCHOLOGY AND ETHICS.

Psychology is taught by text-book and informal lectures. The relation of Psychology to education is made a special feature of the course.

The aim in the course in Ethics is to make the instruction as practical as possible. Hopkins' work on Ethics is used as a text-book.

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### II. HISTORY.

**History.**—Six terms are devoted to this study. The course embraces General History, the History of the United States, of England, and of Greece, and of Rome. The text-book is supplemented by the topical method. Efforts are made to convince the learner that History is not mere facts in chronological order, but a record of the development of civilization.

**Civil Government** is taught as a preparation for intelligent citizenship. The origin and growth of our institutions, the functions of the various departments of the National, State, and local governments; the political history of the people; the interpretation and construction of the Constitution, are discussed.

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### III. THE ENGLISH LANGUAGE AND LITERATURE.

**English Grammar.**—The aim is to enable the pupils to speak and write the English language with accuracy and force. No text-book is used, the instruction being inductive.

**Rhetoric** is taught as a practical aid to English Composition. Daily exercises in Composition are required.

**English Literature** is taught by topical outlines, the elaboration of which depends upon a critical study of the masterpieces in English Literature, in connection with the lives and times of the writers. The books required for this work are found in the Institute Library.

The chief object in the course is to imbue each student with an ardent desire *to know* and *to value* the best thoughts of the greatest minds; and to clearly comprehend the relation of these thoughts to English Literature and the English race.

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### IV. THE LATIN LANGUAGE.

The method employed with beginners is the Inductive, the text of "*Bellum Helvetium*" being used as presenting a model of Latin. Paradigms of Declension and Conjugation, with the Principles of Syntax, are introduced gradually, after

many illustrations. The same text is made the basis of English sentences to be translated into Latin, readiness in Latin composition and a correct style being thus acquired.

The following courses are offered :

1. Latin Grammar and Lessons, two terms.
  2. Cæsar: Gallic War, two terms.
  3. Vergil: *Æneid*, three terms.
  4. Cicero: Orations, two terms.
  5. Cicero *De Senectute* and Livy, one term.
  6. Livy: Books XXI and XXII, one term.
  7. Paternulus and Pliny, one term.
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## V. THE GREEK LANGUAGE.

The first half year of the Third Year is spent in acquiring sufficient knowledge of forms and inflections to commence the study of Xenophon's *Anabasis*. During the last half year, special attention is given to the inflection and syntax of nouns, pronouns, and adjectives. The reading of Xenophon is continued in the first term of the Fourth Year, and the forms and syntax of verbs made a special study. Homer is then read for one term and a half, and the difference between Homeric and Attic forms is noted. During the last half term Xenophon is reviewed, that the student may refresh her knowledge of Attic Greek, and may not find her transition to College needlessly difficult. Almost daily drill is given in turning into Greek, sentences based on the text of Xenophon.

The following courses in Greek are offered to students in the Classical Course :

1. Greek Lessons, two terms.
  2. Xenophon: *Anabasis*, two terms.
  3. Homer: *Iliad*, two terms.
  4. Lysias: Orations, one term.
  5. Herodotus: Selections, one term.
  6. Homer: *Odyssey*, one term.
  7. Greek New Testament.
- 

## VI. MODERN LANGUAGES.

**1. French, Italian, and Spanish.**—The modern languages are taught by comparing them with the mother tongue of the pupil, if there be any relation between them. If there is none, they are compared with the Latin and Greek languages. In French, rules are taught by which the words that are not exactly the same in the two languages are easily made into French.

French Syntax is taught by examples and illustrations from readings. The grammar is taught from the language, and not the language from the grammar. Dictation exercises are given from Whitney's *Practical French*.

As far as practicable French only is spoken in the class-room. Extracts are read from the best French Literature. Conversations are held in French on the readings, stories are related, and compositions prepared in French by the pupil.



The aim is to teach the Modern Languages so that they can be spoken correctly.

The same method is used in teaching Spanish and Italian.

**2. German.**—In the study of German, the aim is to acquire a sufficient knowledge of the grammar and such a vocabulary as will conduce to facility in reading. As little English as practicable is used in the class-room, the rules, after frequent illustrations, being learned in the German Language. The committing to memory of poems, object lessons, and conversations on the text used, constitute the work of the first year; the reading of German classics and German Compositions are included in the second year's course.

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## VII. MATHEMATICS.

**Arithmetic.**—The subject is taught primarily for the purpose of making practical arithmeticians. The mind of the pupil is kept free from set rules, formulæ, and mechanical processes, and independent thought and logical analyses are constantly required.

**Algebra.**—Three terms are given to this subject. There is thorough drill in the fundamental operations, and the idea that these are simply the application of arithmetical processes to symbols of general value is kept constantly in mind. The course includes Quadratic Equations, Theory of Exponents, Variation, and Series.

**Geometry.**—The course includes Plane and Solid Geometry. Besides the demonstrations of theorems given in the text-book, original demonstrations and the solution of problems are required.

**Higher Algebra.**—Some time is given to the graphical representation of the relations of quantities. The topics discussed are: Progressions, Theory of Limits, Differentiation, Development of Functions into Series, Convergency and Summation of Series, Logarithms, Compound Interest and Annuities, Permutations and Combinations, Probability, Continued Fractions and the Theory of Equations. Differentiation is introduced as a means to clear and concise proofs of the Binomial Theorem, Logarithmic Series and Exponential Series.

**Trigonometry.**—The course includes Plane and Spherical Trigonometry. It is as extensive as that in our best schools, but does not include those discussions and investigations which are important for specialists only. Time is given to the numerical illustration of principles, for the purpose of making sure that the meaning and use of formulæ, demonstrated and learned, are thoroughly understood.

**Analytical Geometry.**—The student is taught the elementary properties of the right line and the conic sections. There is, in addition, a brief discussion of the general equation of the second degree, some important higher plane curves, and loci in space. The course is intended to give a clear conception of the method of Cartesian Analysis, rather than an extensive knowledge of its results.

## VIII. SCIENCE.

**Natural Philosophy.**—The student is thoroughly grounded in the elements of mechanics and physics. The historical beginnings of each subject, and subsequent developments, are sketched in brief lectures. No pains are spared to familiarize the pupil with the laws of these sciences, by instruction, experiment, review, and repeated examination. The truth of principles is proved, except where the demonstration involves the higher mathematics. The apparatus of the college is available for class use.

**Astronomy.**—Descriptive Astronomy discusses the earth's relation to the solar system, the masses, motions, and orbits of each member; the causes and consequences of at least five motions of the earth; general boundaries of the constellation of the Zodiac and Northern Heavens; the accepted theories of comets, meteors, and nebulae. Charts, star maps, globes, and other apparatus are used, and the student is afforded privileges of observations in the College Observatory.

**Physical Geography** lays a broad foundation for subsequent work in all sciences. It surveys the earth's physiography, climate, atmosphere, fauna, flora, ocean tides and currents, and geological agencies. Special attention is given to the physical features of the United States. Drawings, photographs, colored and relief maps, and specimens from the Museum, aid to make the subject clear.

**Geology.**—The student is required to master the elements of lithographical, structural, dynamic, and historical Geology. Specimens of various rocks and minerals are handled in class; their composition, characteristics, and place in nature are explained; the structure of the earth in its present form is studied; the history of its evolution, the age and characteristics of its strata, the chief geological features of each continent, and the forces at work are considered.

**Botany** is taught by text-book, plant analysis, and weekly lectures. A brief outline is first obtained of plant structure, physiology, growth, and reproduction. The subject is then reviewed by daily drill in analyzing, recording, classifying, and preserving specimens. The recorded analysis of fifty plants is required. Lectures explaining special forms of vegetable growth, the flora of this country, the cultivation, uses, and history of plants complete the work.

**Physiology.**—Every effort is made to impart clear ideas of the structure, parts, and functions of the human body. Special attention is given to the chemistry of foods, the laws of health, and the effects of stimulants and narcotics. Suggestions are also made as to poisons and their antidotes, the care of the sick, disinfection and sanitation, and accidents and emergencies. The subject is illustrated by the use of a manikin, charts, and preparations.

**Descriptive Chemistry** is taught by text-book and lectures. The object of the course is to give the student a general knowledge of the common elements, their sources, uses, compounds, and behavior towards other elements and compounds, and to drill the student in writing formulæ and solving chemical equations. To accomplish this, each student will be expected to spend at least five hours each week in the Laboratory, studying the characteristics and reactions of the elements and their compounds, and performing the experiments outlined in



the text and lectures. Notes will be kept by each student, describing the experiment and giving the equation which represents the reaction taking place. The Instructor from time to time examines the note-books, and makes such suggestions as he thinks may be helpful.

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## IX. ELOCUTION.

This department is open to all members of the Institute. Its aim is the correct and effective utterance of thought. Special attention is given to Voice Culture, Articulation, including Pronunciation and Expression. Weekly Rhetoricals, in Bucknell Hall, afford opportunity for platform work. Bible Reading and the Study of Shakspeare have places in the course.

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## PHYSICAL CULTURE.

The health of the students is made a prime object of attention, and sanitary requirements are carefully observed. The Institute Gymnasium has been re-furnished, and classes in Physical Culture are organized for the benefit of all students. The exercises practiced are such as tend to develop grace and strength. The Jenness-Miller movements have been lately introduced. The Institute Campus of six acres furnishes facilities for exercise. Lawn Tennis and other out-door games are encouraged, and exercise in the open air is required.

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## ÆSTHETIC CULTURE.

It is intended that the pupils of the Institute shall have the influence unconsciously received from painting, music, and refined surroundings, as well as direct instruction in Literature, Music, and Art. Special instruction in Music and Art is given in the schools devoted to those subjects. Exercises in Free-hand Drawing are required of all students except the Seniors.

The art collection has been recently enriched by a fine oil painting, "Tobit's Offering to the Angels," presented by Mrs. H. S. Hopper.

The Venus de Milo and other casts have also been added.

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## SOCIAL CULTURE.

Pupils are trained to observe the usages of good society. Meetings of various organizations for improvement in Literature, Music, and Art, and receptions in charge of the pupils add variety to student life. No effort is spared to give the pupils the advantages of a cultured home.

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## RELIGIOUS TRAINING.

The Institute is distinctively Christian in its influence. Morning Chapel in the Hall of the Institute building is attended by all students in the Institute courses, special students, and ladies pursuing studies in the School of Music.



Attendance upon Sabbath-school and church services in town is required. All students have weekly recitations in Inductive Bible Study. The students have organized several special classes for Scripture study.

**The Young Women's Christian Association**, a voluntary society open to the officers and students of the Institute, meets on the second Sunday and on the second Thursday of each month. The regular Tuesday evening prayer-meeting, with other devotional meetings, and missionary and temperance work, are in charge of this Association.

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### SPECIAL BRANCHES.

1. Italian and Spanish may be taken as optional studies, under the instruction of M. Elysée Aviragnet.

All optional studies must be pursued in connection with the regular classes.

2. Bible instruction is given once a week throughout the entire course.

3. Essays are required of all students each month.

4. Two declamations are required of each student during each term.

5. Exercises in Elocution are required once a week of all classes. The text-book is Shoemaker's Practical Elocution, and the course of instruction includes: Voice Culture; Modulation; Analytical Reading; Articulation—Phonetics; Expression—Gestures, and the study of Shakspeare.

6. Special individual instruction in Elocution is offered at fifty cents a lesson.

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### PUBLIC EXERCISES.

#### THE EXERCISES OF THE GRADUATING CLASS.

The Commencement Exercises of the Institute are held in the College Commencement Hall on Tuesday afternoon of Commencement week.

#### THE EXERCISES OF THE FOURTH-YEAR CLASS.

The Exercises of the Fourth-Year Class, a combined musical and literary entertainment, are held in Bucknell Hall on the first Saturday evening in the month of May.

#### THE CONTEST IN ELOCUTION.

A contest in Elocution for the prize in that subject, open to all members of the Institute, takes place in Bucknell Hall on the second Saturday evening in the month of May.

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### ALUMNÆ SOCIETIES.

**The Alumnæ Association** holds its anniversary on Monday afternoon of Commencement week.

**The Lewisburg Alumnæ Club** meets at the Institute on the second Tuesday evening of each month during term-time.

## STUDENTS' LOAN SOCIETY OF BUCKNELL INSTITUTE.

In June, 1887, there was organized in connection with Bucknell Institute an Association for the purpose of assisting young women of limited means to obtain an education. A fund was established by gifts from the Alumnæ Association and other friends of the Institute. The money is loaned to beneficiaries, who obligate themselves to return it, *without interest*, as soon after their graduation as they may be able.

The Association is composed of Acting Members, who contribute \$5.00 annually. The amount, however, is not limited, and larger or smaller sums will be welcome.

The Society meets in the parlors of the Institute on the first Tuesday afternoon after the opening of each term, at half-past two o'clock.

The annual meeting for the election of officers is held at the Institute on the first Tuesday after the opening of the school in September.

All contributions to the Society should be sent to the Treasurer, Mrs. T. H. Purdy, Sunbury, Pa.

Applications for aid should be made to the President, Mrs. Katherine B. Larison, Lewisburg, Pa.

THE ART DEPARTMENT.

MISS MARGUERITE MILLER.

The facilities for the study of Art have been greatly increased by the accommodations allotted to this department, in a special studio, which provides such adjustments for admission of light and unencumbered wall surface as render it adapted for the execution and display of art productions.

For such students as desire opportunity for work preparatory to professional study, and for those who wish to fit themselves to give systematic instruction in drawing, the following course is provided :

**First Year.**—Drawing in Pencil, Charcoal, and Crayon from solid geometrical forms, and portions of the human figure, with the necessary elements of Perspective, the Laws of Proportion, and the relations of Light and Shade.

**Second Year.**—Drawing from the Antique in Coal, Crayon, Sepia, or oil Monochrome; Modeling in Clay or Wax. Study in Color from Draperies, and Still Life.

**Third Year.**—Composition, Color in Landscape, Pen and Ink Drawing, and Painting in Color from Nature and from Life.

On successful completion of this entire course a certificate of proficiency will be awarded.

Students who do not desire the certificate course, and whose interest is in Decorative Work, will receive the requisite instruction in the latest methods—China Painting, Tapestry Dyeing, and applied Design in other mediums and materials.

Charges for instruction in Art are as follows :

	<i>Per Annum.</i>
Drawing, . . . . .	\$24 00
Crayoning, . . . . .	33 00
Painting in Oil, Water Colors, Pastel, or on China, . .	60 00
	<i>Per Lesson.</i>
Special individual instruction in Painting, . . . . .	\$1 00

Free-hand Drawing is a part of the required work of the school, without extra charge, and is taught in the class-room to all students except the Seniors.



## ART EXHIBIT.

On the last three days of Commencement Week, a display of art products by the pupils of the School of Art is made in the Studio. At this time, a committee of art students receives and entertains all those who visit the Studio.

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## CLASS IN ART.

NAME.	RESIDENCE.
ELIZABETH DARLINGTON, . . . . .	Lewisburg
MINNIE DARLINGTON, . . . . .	Lewisburg
GRACE ALICE DEWITT, . . . . .	Pittsburg
ALICE FLORA DUNHAM, . . . . .	Sheffield
REESE HARVEY HARRIS, . . . . .	Lewisburg
MABEL FLORENCE MORGAN, . . . . .	Winton
ALICE KAUFFMAN SCHAEFFER, . . . . .	Fleetwood
REBECCA STOUGHTON, . . . . .	Lewisburg
MABEL WELLS, . . . . .	Wilcox

## GENERAL INFORMATION.

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### ADVANTAGES.

The Bucknell Institute offers to young ladies superior educational advantages. Its location in a University town assures an atmosphere of study, and the benefit of numerous literary exercises, lectures, and addresses. The students in the Institute have the use of the Library and apparatus of the Institute, and also of the College Astronomical Observatory, Chemical Laboratory, Museum and Library, and the various apparatus of the University. An isolated school could not provide for itself these advantages at a cost of less than a quarter of a million dollars.

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### ADMINISTRATIVE AND OTHER REGULATIONS.

1. The general control of the Institute is vested in the President of the University.
  2. The government of the Institute, subject to such control, rests with the Principal of the Institute.
  3. Young ladies attending the College or School of Music are subject to the rules and regulations governing young ladies attending the Institute.
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### RULES.

The laws governing the Institute are enacted by the Board of Trustees.

Any officer of the Institute becoming cognizant of violation of regulations by any pupil shall report the same to the Principal of the Institute, who shall make a record of the fact in a book provided for the purpose. Any second violation by the same pupil shall also be reported to the President of the University: and if, in the judgment of the President of the University, and the Principal of the Institute, the offense be of sufficient gravity, the parent or guardian of the offending pupil shall be notified.

Violations of the regulations of the Institute or infraction of the laws of morality are punished by private reprimand, deprivation of privileges, or private withdrawal from the Institute.

The following are selections from the regulations:

1. No student is allowed to leave the Institute grounds at any time without permission from the Principal.
2. Unless for reasons very satisfactory, students from a distance are not permitted to visit their homes, or to leave the Institute to visit with relatives or friends in town.

3. None but near relatives and friends from a distance are allowed to visit with boarding students, and such visits must be so arranged as not to interfere with the regular hours of study and recitation.

4. Students are not at liberty to invite guests to their private apartments, or to any part of the building, without permission from the Principal.

5. Teachers and students take their meals at the same table, and no special article of food is served to any one except in case of sickness.

6. Parents and guardians are particularly requested to refrain from furnishing their daughters and wards with *eatables of any kind*, except fruit.

7. Patrons visiting young ladies at the Institute may be accommodated with board at one dollar a day, if there are vacant rooms. In no case will students be required to give up their rooms to visitors. Visitors will conform to the general regulations of the Institute.

8. Regular and systematic exercise, both in the open air and in the Ladies' Gymnasium, is required of each student.

9. In the Regular Course, the number of daily recitations is fixed. Special students are required to engage in such a number as may, in the judgment of the Principal, be sufficient to occupy their time.

10. The character of each recitation is recorded at the time, and the result, together with a statement of the general industry and deportment of the student, is sent to the parent or guardian at the close of the term.

11. The passing grade in any study is a definite one, and must be attained before promotion can be secured.

12. No room will be reserved for a student unless definitely engaged.

13. The books and current periodicals of the College and Institute Libraries are available for all students.

14. ARTICLES REQUIRED.—Each student should be provided with an umbrella, waterproof, overshoes, table napkins, towels, covers for bureau and washstand, counterpanes, sheets, and pillow-cases. The size of pillow is twenty by thirty inches; of the bureau, forty-three by nineteen inches; of the washstand, thirty-two by sixteen inches.

Every article of clothing should be marked with the owner's name in full.

It is especially desired that the dress of pupils shall be simple and inexpensive. Wherever practicable, the wardrobe should be prepared at home, to avoid frequent visits to town.

#### THE INFIRMARY AND DISPENSARY.

An infirmary, for students who become sick during their residence in the school, has been established in an isolated portion of the main building.

A dispensary, containing medicines for use in sudden illness, has also been established.



## PRIZES.

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### I. THE BUCKNELL PRIZES.

The following prizes were founded by William Bucknell, of Philadelphia:

1. A First Senior Prize, to be awarded to the member of the graduating class who, being excellent in scholarship during the Senior Year, shall prepare the best essay.

2. A Second Senior Prize, to be awarded to the member of the graduating class who, being excellent in scholarship during the Senior Year, shall prepare the second best essay.

For the year 1896 the First Prize of twenty-four dollars was awarded to Bertha Watkins, and the Second Prize of sixteen dollars to Emma D. Seiler.

3. A Third Senior Prize, to be awarded to the member of the graduating class who shall attain the highest grade in the studies of the Senior year. This excludes all grades for studies not in the Senior Year, all Senior studies taken before the Senior year, and all studies not taken in the Institute.

For the year 1896, this Prize of twenty-five dollars was awarded to Mary Williamson and Margaret Ross, being divided equally between them.

4. A First Fourth Year Prize, to be awarded to the member of the Fourth Year Class who, being excellent in scholarship during the year, shall prepare the best Fourth Year essay.

5. A Second Fourth Year Prize, to be awarded to the member of the Fourth Year Class who, being excellent in scholarship during the year, shall prepare the second best Fourth Year essay.

For the year 1896 these prizes were awarded as follows: Mabel Wells received the First Prize of twenty dollars; Alice H. Focht, the Second Prize of fifteen dollars.

The fund consists of \$2,000, the income from which is to be devoted to these prizes annually in a manner more particularly defined in the donor's communication to the Trustees.

Themes for the Bucknell Essay prizes for the year 1896, 1897, will be drawn from the following works:

For 1897.—Shakspeare's Hamlet; Goldsmith's Deserted Village; Longfellow's Miles Standish; Hawthorne's Marble Faun.

For 1898.—Milton's Paradise Lost, Books I and II; Coleridge's Ancient Mariner; Carlyle's Essay on Burns; Hawthorne's House of the Seven Gables.

## II. THE LIPPINCOTT PRIZE.

An award of fifty dollars has been offered by Mr. Craige Lippincott, to the student who proves, on examination, to have the best command of the English Language, and the most thorough knowledge of British and American Literature. For the year 1896 this Prize was awarded to Emma D. Seiler.

## III. THE ELOCUTION PRIZE.

A Prize in Elocution is offered to the student who shall give the best recitation at the Annual Contest.

For 1896 the Prize was awarded to Eliza J. Martin.

EXPENSES.

**I. Boarding Students.**—The regular charge for Boarding Students is \$230.00 per annum; the other expenses, spending-money, books, and clothing, will vary with the individual student.

Students are charged extra for the washing of dresses, and for the washing of more than 12 pieces per week.

The rooms in the Bucknell Cottage are rented in suites, for which there is an extra charge, depending on the location.

	<i>Per Annum.</i>
Suite on the first floor, . . . . .	\$30 00
Suite on the second floor, . . . . .	34 00
Suite on the third floor, . . . . .	28 00

Each suite contains a study and two sleeping apartments, and has accommodations for four persons, and the charge will be divided accordingly.

If a student arranges to occupy one of the large rooms, in the South Hall of the Main Building, by herself, extra room-rent will be charged.

Students will be charged for damage done to furniture or to the room they occupy.

**II. Day Students.**—The charges for Day Students amount to \$55.00 per annum.

**III. Extra Studies.**—The charges for Elocution, Drawing and Painting, and Music, will be found under those titles.

Bills are payable *strictly in advance*, on the 15th of September, January, and April.

Checks and drafts should be drawn in favor of the Registrar of the University.

No bill will be made out for a shorter period than one term; and no deduction will be made except in the charge for board in case of a prolonged absence on account of sickness.

The expenses for Music, Printing, and other charges ordinarily incurred at Examination and on Anniversary occasions, are paid by the class or classes which incur the expenses.

When music is furnished by the Institute Orchestra for public exercises, no charge is made.

The fee for Graduation and Diploma is \$5.00.

Free scholarships, covering tuition, are awarded to children of Ministers of the Gospel *in actual service*.

For information respecting the Institute, address the Principal, Mrs. Katherine B. Larison, A. M., or the President of the University, John H. Harris, Ph. D., LL. D.



## THE BUCKNELL SCHOOL OF MUSIC.

---

ELYSÉE AVIRAGNET, A. M., MUS. DOC., DIRECTOR,  
VOCAL AND INSTRUMENTAL MUSIC.

JULIET AIKIN,  
INSTRUMENTAL MUSIC.

KATHARINE ARMISTEAD CRAWFORD, MUS. B.,  
VOCAL AND INSTRUMENTAL MUSIC.

GRACE PRETZMAN,  
ASSISTANT IN MUSIC.

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### GRADUATES IN MUSIC, 1896.

NAME.	COURSE.	RESIDENCE.
SUSAN JONES,	<i>Harmony and Vocal.</i>	Mahanoy Plane
IONA MORGAN,	<i>Harmony and Piano.</i>	Watsonstown
NETTIE PARKHURST,	<i>Harmony, Piano, and Organ.</i>	Kane
OLIVIA JENNIE SILVERS,	<i>Harmony, Piano, and Organ.</i>	Lambertville, N. J.
ELIZABETH COOK WALKER,	<i>Harmony, Piano, and Organ.</i>	Elkland

NAMES OF STUDENTS.

PIANO.

NAME.	RESIDENCE.
BELLE BARTOL, . . . . .	Lewisburg
ELBINA LAVINIA BENDER, . . . . .	Lewisburg
JESSIE MARGUERITE BIERBECK, . . . . .	Freeland
FANNIE BLOOM, . . . . .	Sunbury
BRYANT EVANS BOWER, . . . . .	Lewisburg
MARY BOWER, . . . . .	Lewisburg
LENA BURKE, . . . . .	Northumberland
GRACE HELENE CALLENDER, . . . . .	Olyphant
FANNIE MARGUERITE CASE, . . . . .	Lewisburg
KATIE CHRIST, . . . . .	Shamokin
ARTHUR NICHOLAS DEVORE, . . . . .	Lewisburg
MINNIE DONACHY, . . . . .	Lewisburg
ARIE MABEL DUNKLEBURGER, . . . . .	Lewisburg
MABEL ROASELTHA FARLEY, . . . . .	Milton
SARAH CLARK FAUST, . . . . .	Milton
JOHN FETTER, . . . . .	Milton
MARY LOUISA GILLIECE, . . . . .	Milton
GERTRUDE GRANT, . . . . .	Ridgway
JENE DONALD HIMMELREICH, . . . . .	Lewisburg
GEORGE HURBURT HYDE, . . . . .	Ridgway
ANNA JANE JONES, . . . . .	Plymouth
CAROLINE ELIZABETH KELLY, . . . . .	Lewisburg
RUSH HARRISON KRESS, . . . . .	Memphis, Tenn.
MARIE LOUISE LEISER, . . . . .	Lewisburg
LILIAN MAGOWEN, . . . . .	Wilmington, Del.
SARAH MERRIMAN, . . . . .	Lewisburg
MARGARET MONTGOMERY, . . . . .	McEwensville
MABEL FLORENCE MORGAN, . . . . .	Winton
AIDA VIRGINIA MYERS, . . . . .	Lewisburg
MRS. C. WILLARD OLDT, . . . . .	Lewisburg
ADA ELECTA PENNYPACKER, . . . . .	Norristown
DAVID ALEXANDER PITTS, . . . . .	Philadelphia
ELEANOR POTTER, . . . . .	Lewisburg
JENNIE KRAEMER REIFSNYDER, . . . . .	Millheim
ANNA MARY ROGERS, . . . . .	Allentown
GEORGE CLARENCE ROGERS, . . . . .	Muncy
MARY ROHRER, . . . . .	Lewisburg
ALICE KAUFFMAN SCHAEFFER, . . . . .	Fleetwood
ANNIE SCHWEIER, . . . . .	Mifflintown

NAME.	RESIDENCE.
LOUISE SEILER, . . . . .	Lewisburg
CARLINO SEILER, . . . . .	Lewisburg
JESSIE THEKLA STEINER, . . . . .	Lewisburg
BIRDIE LEONA TAGGART, . . . . .	Emporium
HARRIET ELSPETH VAUGHAN, . . . . .	Newark, N. J.
MARY VORIS, . . . . .	Lewisburg
LIZZIE WATERS, . . . . .	East Lewisburg

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### PIPE ORGAN.

ELBINA LAVINIA BENDER, . . . . .	Lewisburg
LENA BURKE, . . . . .	Northumberland
KATIE CHRIST, . . . . .	Shamokin
ARTHUR NICHOLAS DEVORE, . . . . .	Lewisburg
ANNA JANE JONES, . . . . .	Plymouth
CAROLINE ELIZABETH KELLY, . . . . .	Lewisburg
SARAH MERRIMAN, . . . . .	Lewisburg
ADA ELECTA PENNYPACKER, . . . . .	Norristown
CARLINO SEILER, . . . . .	Lewisburg
JESSIE THEKLA STEINER, . . . . .	Lewisburg

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### HARMONY.

BELLE BARTOL, . . . . .	Lewisburg
ELBINA LAVINIA BENDER, . . . . .	Lewisburg
FANNIE BLOOM, . . . . .	Sunbury
LENA BURKE, . . . . .	Northumberland
FANNIE MARGUERITE CASE, . . . . .	Lewisburg
MINNIE DONACHY, . . . . .	Lewisburg
ARIE MABEL DUNKLEBURGER, . . . . .	Lewisburg
MABEL ROASELTHA FARLEY, . . . . .	Milton
SARAH CLARK FAUST, . . . . .	Lewisburg
JOHN FETTER, . . . . .	Lewisburg
ANNA JANE JONES, . . . . .	Plymouth
CAROLINE ELIZABETH KELLY, . . . . .	Lewisburg
JAMES BROWN MARTIN, . . . . .	Lewisburg
SARAH MERRIMAN, . . . . .	Lewisburg
AIDA VIRGINIA MYERS, . . . . .	Lewisburg
MRS. C. WILLARD OLDT, . . . . .	Lewisburg
ADA ELECTA PENNYPACKER, . . . . .	Norristown
JENNIE KRAEMER REIFSNYDER, . . . . .	Millheim
ANNA MARY ROGERS, . . . . .	Allentown
ALICE KAUFFMAN SCHAEFFER, . . . . .	Fleetwood
JESSIE THEKLA STEINER, . . . . .	Lewisburg
BIRDIE LEONA TAGGART, . . . . .	Emporium
LIZZIE WATERS, . . . . .	East Lewisburg



## VOICE.

NAME.	RESIDENCE.
WILLARD MAINE BUNNELL, . . . . .	Montrose
GRACE HELENE CALLENDER, . . . . .	Olyphant
FANNIE MARGUERITE CASE, . . . . .	Lewisburg
LAURA CHILLSON, . . . . .	Shamokin
EUDORA INEZ DAVIS, . . . . .	Lewisburg
GRACE ALICE DEWITT, . . . . .	Pittsburg
ARIE MABEL DUNKLEBERGER, . . . . .	Lewisburg
ELWOOD HERBERT DUTTON, . . . . .	Lewisburg
SARAH CLARK FAUST, . . . . .	Milton
JOHN ARTHUR HAGUE, . . . . .	Plymouth
ANNA KATE GODDARD, . . . . .	Philadelphia
ROSA LOUISE HARTLEY, . . . . .	St. Thomas, Ont.
ANNA JANE JONES, . . . . .	Plymouth
CHARLES SKULL KEEN, . . . . .	Cramer Hill
CHARLES PAUL MEEKER, . . . . .	Nicetown
MARGARET MONTGOMERY, . . . . .	McEwensville
AIDA VIRGINIA MYERS, . . . . .	Lewisburg
ANNIE NOAKER, . . . . .	Milton
MARGUERITE O'DONNELL, . . . . .	Texarkana, Ark.
WILLIAM JOHN PEACOCK, . . . . .	Pittsburg
ELEANOR POTTER, . . . . .	Lewisburg
JENNIE KRAEMER REIFSNYDER, . . . . .	Millheim
ROMEYN H. RIVENBURG, . . . . .	Clifford
BIRDIE LEONA TAGGART, . . . . .	Emporium
JEANETTE AYARS TAYLOR, . . . . .	Montrose
DAVID WILLIAM THOMAS, . . . . .	Scranton
MARY VORIS, . . . . .	Lewisburg
IRENE WALLS, . . . . .	Lewisburg
JULIA WIDENSAUL, . . . . .	Lewisburg

## VIOLIN.

WILLIAM BARTOL, . . . . .	Lewisburg
ARTHUR BASSETT, . . . . .	Lewisburg
LENA BURKE, . . . . .	Northumberland
SARAH CLARK FAUST, . . . . .	Milton
RAPHAEL GRESH, . . . . .	Milton
SPENSER HARRIS, . . . . .	Lewisburg
LOUISE WEIMER LAWSHE, . . . . .	Lewisburg
JAMES BROWN MARTIN, . . . . .	Lewisburg
MABEL FLORENCE MORGAN, . . . . .	Winton
ALICE KAUFFMAN SCHAEFFER, . . . . .	Fleetwood
EDNA SCHUYLER SHIRES, . . . . .	Limestoneville
DAVID WILLIAM THOMAS, . . . . .	Scranton

### VIOLONCELLO.

NAME.	RESIDENCE.
JAMES BROWN MARTIN, . . . . .	Lewisburg
WILLIAM JOHN PEACOCK, . . . . .	Pittsburg
RAY WENDEL, . . . . .	Lewisburg

### VIOLA.

JAMES BROWN MARTIN, . . . . .	Lewisburg
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### GUITAR.

GRACE HELENE CALLENDER, . . . . .	Olyphant
KATHERINE BAKER HAUCK, . . . . .	Lewisburg
MYRA MARTZ, . . . . .	Milton

### MANDOLIN.

GRACE ALICE DEWITT, . . . . .	Pittsburg
ALICE KAUFFMAN SCHAEFFER, . . . . .	Fleetwood
BIRDIE LEON TAGGART, . . . . .	Emporium
JEANETTE AYARS TAYLOR, . . . . .	Montrose
MABEL ESTELLA WHEELER, . . . . .	Erie

### FLUTE, CLARINET, AND BAND INSTRUMENTS.

ENOS COOK BAKER, . . . . .	Ercildoun
BRYANT EVANS BOWER, . . . . .	Lewisburg
THOMAS REESE BOWER, . . . . .	Lewisburg
CHARLES ERNEST BUNNELL, . . . . .	Montrose
WILLARD MAINE BUNNELL, . . . . .	Montrose
ALAN CRAIG CUNNINGHAM, . . . . .	Philadelphia
ARTHUR NICHOLAS DE VORE, . . . . .	Lewisburg
HAROLD DONACHY, . . . . .	Lewisburg
LUTHER DONACHY, . . . . .	Lewisburg
LEROY HALL, . . . . .	Union City
WILLIAM HOFFA, . . . . .	Washingtonville
GEORGE MURHEID HOWELL, . . . . .	Northumberland
ALBERT HUTCHINSON, . . . . .	Holmed
AMOS NORMAN JACQUEMIN, . . . . .	Bellefonte
CHARLES SKULL KEEN, . . . . .	Cramer Hill
JAMES BROWN MARTIN, . . . . .	Lewisburg
HOWARD PAUL, . . . . .	Lewisburg
HARRY ROTHERMEL, . . . . .	Lewisburg

NAME.	RESIDENCE.
FRANK MONROE SCHAEFFER, . . . . .	Shelly
CARLINO SEILER, . . . . .	Lewisburg
GEORGE STEPHEN TILLEY, . . . . .	Bridgeton, N. J.
CLARENCE ANDREWS WEYMOUTH, . . . . .	Lock Haven
RICHARD WILSON WAGNER, . . . . .	Lewisburg
RICHARD ERVIN WAGNER, . . . . .	Lewisburg
HARRY BORETRAEGER WASSELL, . . . . .	Pittsburg

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Total Lessons, . . . . .	157
Names Repeated, . . . . .	63
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Total in School of Music, . . . . .	94
In other Departments, . . . . .	330
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Total in all Departments, . . . . .	424



## COURSES OF STUDY.

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The School of Music is under the special charge of a French artist, whose musical education was received at the Conservatory of Music in Paris, and who has had a large and successful experience in teaching. He is supported by competent assistants, and the course is designed to afford every needed facility for the study of Vocal and Instrumental Music. An ample supply of pianos from the best makers is provided for practice, including a Concert Grand.

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### INSTRUMENTAL MUSIC.

#### COURSE FOR THE PIANO-FORTE OF FOUR YEARS FOR GRADUATION.

The pupil is required to pursue the most thoroughly approved modern system of technical training. After the first rudiments have been mastered, the course of instruction leads to the practice of *études*, designed to unite with purely technical drill the requirement of artistic style and expression.

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#### PIANO.

##### FIRST YEAR.

New England Conservatory Method, 1 and 2 parts; Le Couppey Ecole du Mécanisme; Duvernoy Ecole du Mécanisme, books 1, 2, and 3; Kohler, op. 157; Czerny, fifty Studies from op. 261, 821, 599, and 139, ed. of Henrich Germer; Meyer, Progressive and Melodious Studies; Robert Sutton's "The Elements of the Theory of Music;" Brown, Musical Biographies of Composers.

##### SECOND YEAR.

Plaidy, Technical Studies; Czerny, Polyrhythmic Studies; from op. 139, 834, 335, and 299; Czerny, Studies of Ornamentation from op. 355 and 833; Czerny, twelve Studies from op. 299 and 740; Czerny, thirty Studies from op. 299 and 834 (Henrich Germer Edition); Heller, Expression and Rhythm, op. 125; Kul-lak, Preparatory Octave Studies; Homer Norris's Practical Harmony; History of Music.

##### THIRD YEAR.

Clementi, "Gradus ad Parnassum;" Tausig Daily Studies; Kohler, op. 112; Cramer Studies, books 1, 2, and 3; Czerny, thirty-six Octave Studies from op. 821, 335, 740, and 834 (Henrich Germer Edition); Norris, Harmony; Dr. Marx Universal School of Music.

## FOURTH YEAR.

Bach, two and three-voiced invention; Czerny, twenty Studies from op. 335; Czerny, nineteen Studies from op. 740; Czerny, Toccata, op. 92 (Henrich Germer Edition); Kullak, Octave Studies; Chopin, Studies; Liszt, Studies; Bach, Well-Tempered Clavichord (preludes and figures); Kullak, Art of Touch; Symphonies of Haydn, Mozart, and Beethoven.

During the year, selected studies from Bertini, Rossellen, Moscheles, Heez, and Thalberg are also given to the pupils.

That the æsthetic development may be proportionately secured, the above exercises are supplemented by the study of the works of the best composers.

## COURSE FOR PIPE ORGAN.

The course is based upon:

Dudley Buck Pedal Studies, and upon works of Rink, Batiste, Lefébure—Wely, Guilmant, and others.

## COURSE FOR THE VIOLIN.

This course is based upon:

Dancla's School of Mechanism; De Beriot's Violinist's First Guide; Fiorillo's Studies; Alard's Studies; Kreutzer's Studies, etc., with selections from the compositions of the best writers for this instrument.

## COURSE FOR THE VIOLONCELLO.

Instruction for this instrument is based upon:

Méthod Pratique pour le Violoncello, par S. Lee; Studies by Piatti and Romberg.

## COURSE FOR VIOLA.

Bruni's Method and Studies, by Campagnoli.

## COURSE FOR CONTREBASSO (DOUBLE BASS).

Bottesini's Method.

## VOICE CULTURE.

## COURSE OF THREE YEARS FOR GRADUATION.

Careful instruction is given in the use of the voice, and the correct manner of producing purity of tone. To secure control over the voice and gain for it flexibility, fullness, and durability, thorough drill is afforded in such technical exercises as:

Lamperti's and Vannuccini's Italian Methods, Vocalises of Sieber, Concone, Tütgen, Vaccai, Bonaldi, Bordogni, Marchesi, and Panofka; Lamperti's Studies in Bravura Singing. For expression and the development of a pure style, practice is afforded in singing the best English, German, Italian, and French Songs, Operatic Arias, and Solos from the Oratorios.

## COURSE IN HARMONY.

It is urgently recommended that the study of Harmony be included in the other musical work, inasmuch as a sound knowledge of its principles is essential to the success of all vocalists and instrumentalists. The text-books used are: Bussler's Harmonic Exercises, Homer Norris's Practical Harmony, Richter's Counterpoint, and Reicha's Course of Musical Composition.

## THE ORCHESTRA.

## CLASSES FOR ALL ORCHESTRAL INSTRUMENTS.

Students who are sufficiently advanced in any of the above musical instruments will have opportunity of practice in string quartettes, trios, concertos, and symphonies of Beethoven, Mozart, and Haydn. The Orchestra furnishes the music for the public entertainments of the Institute.

## THE BAND.

A Brass Band, consisting of about twenty pieces, has been organized, and is led by M. Elysée Aviragnet, Director of the School Music. The Band meets weekly in Bucknell Hall for rehearsal, and furnishes street and concert music for University and town exercises.

## RECITALS.

On the Friday evening prior to Commencement Week a public recital of the School of Music is held in Bucknell Hall.

The public examination of those who desire certificates of proficiency is held in Bucknell Hall the Saturday afternoon before Commencement. At this time each pupil plays or sings two pieces of high grade, and reads an essay on some subject connected with music.

## TUITION.

Extra tuition is charged for instruction in Music, as follows:

	<i>Per Annum.</i>
Vocal Music, . . . . .	\$60 00
Music on Piano, <i>or</i> Organ, . . . . .	60 00
Harmony, in Class, . . . . .	18 00
Harmony, private lessons, . . . . .	60 00
Use of instrument for practice, . . . . .	10 00

*Per Lesson.*

Special individual instruction in Music, . . . . . \$1 00

No reduction will be made except in case of protracted illness.

Instruction in the Orchestra and in Harmony is free to pupils otherwise studying music.



## RESIDENCE OF MUSIC PUPILS.

Pupils in music reside in the Institute, and are under the care of the Principal of the Institute. Students pursuing any of the Institute courses can also take studies in music. Those who wish to make music a specialty are recommended to take at least one study each term in Language or Literature, for which no additional charge will be made. When two or more studies are taken in the Literary Department, the regular rates will apply.

The regular charges for pupils in music, residing in the Institute, including one literary subject per term, are \$195 per annum. This *does not* include charges for instruction in music, which are determined by the number of lessons taken per week.

---

## GRADUATION IN MUSIC.

Students who complete any of the Courses in Music and pass the examinations, receive a certificate of proficiency. Students will not be ranked as Seniors in music until they have passed an examination before the Committee. Besides the examination before the Committee for admission to the Senior Class, students will be required to pass a preliminary examination at the opening of the Spring term, and a final examination before Commencement Week. Students will not be admitted to the final examination unless they have passed the preliminary examinations.

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## THE AVIRAGNET PRIZES.

Professor Elysée Aviragnet has established two prizes, as follows:

1. A Prize of ten dollars for excellence in Music.

For 1896 this prize was awarded to Mary Youngman.

2. A Prize of ten dollars for excellence in French.

For 1896 this prize was awarded to Olivia Silvers.

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## GENERAL REMARKS.

Young ladies attending upon the School of Music are subject to the administration and other regulations enacted by the Board of Trustees for the government of students in the Institute. These rules are given on page 118 of this Catalogue. Students of Music are also entitled to all the privileges of the Institute.

For information respecting the School of Music address the Director, Elysee Aviragnet, Mus. Doc., or the President of the University, John H. Harris, Ph. D., LL. D.

# UNIVERSITY CALENDAR.

1897-98.

Second Term ends, . . . . . Friday, March 26, 1897

## SPRING RECESS.

Third Term begins, . . . . . Thursday, April 1, 1897  
Sermon before the Y. M. C. Associations, . . . . . Sunday, April 11, 1897  
Declamation of the Third Form, Academy, . . . . . Saturday, April 24, 1897  
Exercise of the Fourth-Year Class, Institute, . . . . . Saturday, May 1, 1897  
Contest in Elocution, Institute, . . . . . Saturday, May 8, 1897  
Exhibition of the Junior Class, College, . . . . . Friday, May 21, 1897  
Examinations, . . . . . Thursday to Saturday, June 17 to 19, 1897  
Exhibition, School of Music, . . . . . Friday, June 18, 1897  
Baccalaureate Sermon, . . . . . Sunday, June 20, 1897  
Sermon before the Education Society, . . . . . Sunday, June 20, 1897  
Examinations for Admission to College, . . . . . Monday, June 21, 1897  
Meeting of the Alumnae of the Institute, . . . . . Monday, June 21, 1897  
Oration before the Literary Societies, . . . . . Monday, June 21, 1897  
Annual Meeting of the Trustees, . . . . . Tuesday, June 22, 1897  
Annual Meeting of the Alumni, . . . . . Tuesday, June 22, 1897  
Exhibition of the Fourth Form, Academy, . . . . . Tuesday, June 22, 1897  
Graduating Exercises of the Institute, . . . . . Tuesday, June 22, 1897  
Oration before the Alumni, . . . . . Tuesday, June 22, 1897  
Annual Commencement, the 47th, . . . . . Wednesday, June 23, 1897

## SUMMER VACATION.

Examinations for Admission to College, . . . . . Wednesday, September 15, 1897  
First Term begins, . . . . . Thursday, September 16, 1897  
Reception by Christian Associations, . . . . . Saturday, September, 18, 1897  
Introductory Address, . . . . . Monday, September, 20, 1897  
Thanksgiving (recess of three days), . . . . . Thursday, November 25, 1897  
First Term ends, . . . . . Friday, December 17, 1897

## HOLIDAY RECESS.

Second Term begins, . . . . . Tuesday, January 4, 1898  
Day of Prayer for Colleges, . . . . . Thursday, January 27, 1898  
Second Term ends, . . . . . Friday, March 25, 1898

## SPRING RECESS.

Third Term begins, . . . . . Thursday, March 31, 1898  
Sermon before the Y. M. C. Associations, . . . . . Sunday, April 10, 1898  
Third Term ends, . . . . . Wednesday, June 22, 1898

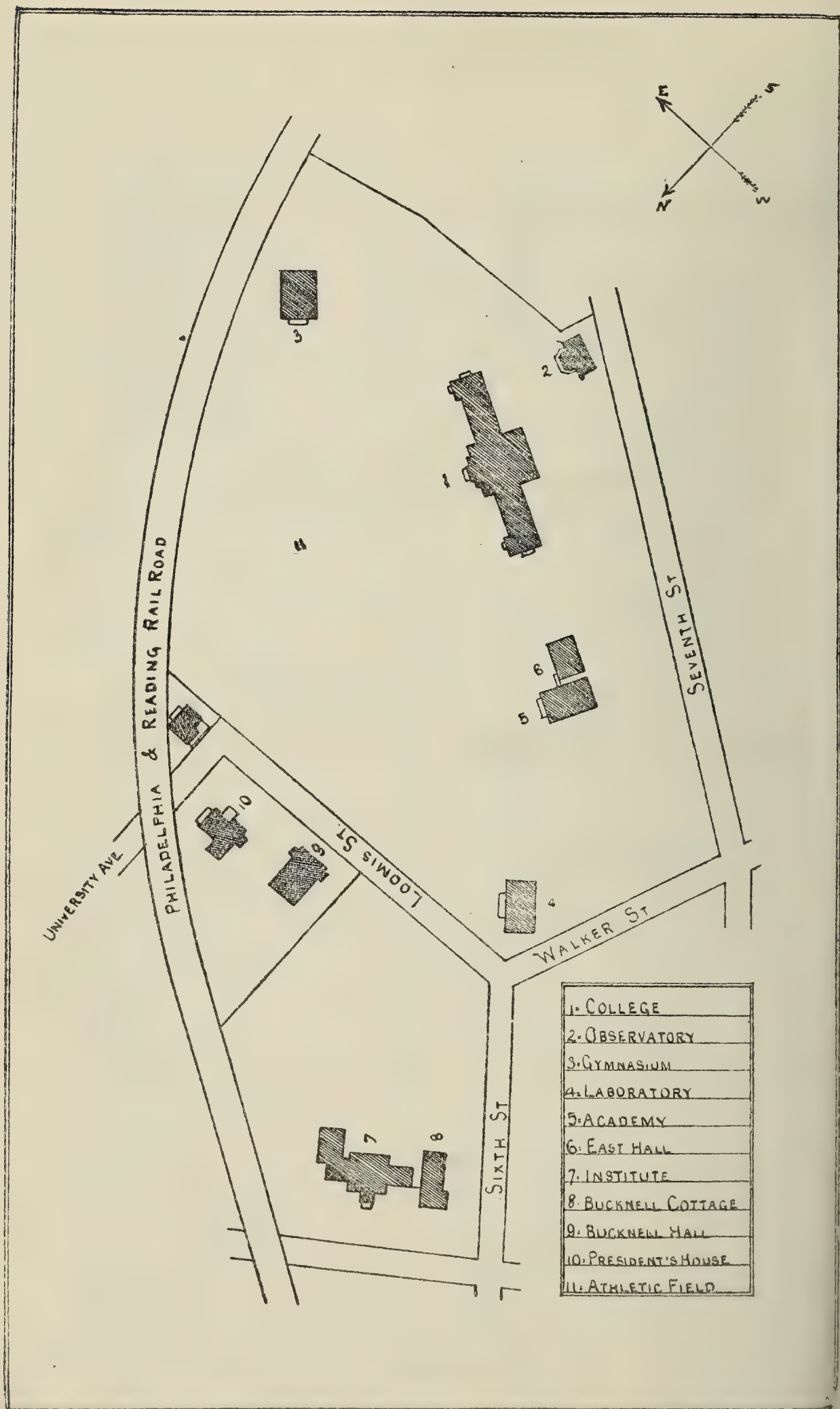


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MAP OF GROUNDS AND BUILDINGS, BUCKNELL UNIVERSITY.

THE  
Forty-Eighth Annual Catalogue  
OF THE  
Officers and Students  
OF  
Bucknell University,

LEWISBURG, PA.

FOR THE YEAR 1897-1898.

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PUBLISHED BY THE UNIVERSITY.



## LOCATION.

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Bucknell University is located at Lewisburg, near the geographical centre of the State, on the West Branch of the Susquehanna River, in a valley famous for healthfulness and beauty. In addition to the natural advantages of the site, the founders of the institution appreciated the quiet of an inland town for economical support and retirement in study, particularly as it was found that other corporations had so located "their respective colleges as to leave in the central and northern part of Pennsylvania, a region extending more than two hundred miles from east to west, and more than one hundred miles from north to south, wholly unoccupied by any literary institution above the grade of an ordinary academy." Since the founding of the University, the multiplication of railroads has rendered access easy to every part of the State.

## PLAN AND PURPOSE OF THE UNIVERSITY.

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### CORPORATE RIGHTS.

The University was incorporated with full University privileges by the Legislature of Pennsylvania in an Act approved by the Executive on the fifth day of February, A. D. 1846. The Management of the University is committed to a Board of Trustees, consisting of twenty-five members, or fewer at the option of the Board. The Trustees are prohibited, for any cause, or under any pretext whatever, from encumbering by mortgage or otherwise the real estate or any other property of the Institution. It is required by the charter that no religious sentiments are to be accounted a disability to hinder the election of an individual to any office among the teachers of the Institution, or to debar persons from attendance as pupils, or in any manner to abridge their privileges or immunities as students in any department of the University.

### ENDOWMENT.

The Institution has productive funds amounting to over \$400,000. The endowment funds, raised at various times, were increased, in 1881, to an even \$200,000. Since that time William Bucknell contributed to the general fund \$115,000, and for scholarships and prizes about \$25,000.

One hundred thousand dollars additional endowment was raised in 1892.

### FORM OF BEQUEST.

To persons desiring to aid in increasing the efficiency of the schools in the work of preparing young men and young women for usefulness, the following form of bequest is recommended:

*I give and bequeath to the Bucknell University, at Lewisburg, Pa., the sum of.....dollars for the general purpose of said school, according to the Act of Assembly incorporating the same.*

### ORGANIZATION.

The University aims to impart sound instruction in all non-professional studies. It comprises four departments:

I. **The College** offers four courses of study, leading respectively to degrees in Arts, Philosophy, and Science.

II. **The Institute** for young women has three courses of study, the Literary, the Classical, and the Scientific, leading to diplomas, but not to degrees.

III. **The Academy** is designed to fit young men for College, either for the Classic, Philosophical, or Scientific course.

IV. **The School of Music** has full courses in instrumental and vocal music, and grants diplomas to those who complete either of the specified courses.

These schools are one corporation, have one President, who has general charge, with a principal in more immediate charge of each of the subordinate departments. All expenses are met from funds in the hands of a common treasurer.

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## MEETINGS OF THE BOARD.

The annual meeting is held on Tuesday of Commencement week, at Lewisburg.

The semi-annual meeting is held on the second Thursday of January, at 1420 Chestnut Street, Philadelphia.



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## THE UNIVERSITY PROPERTY.

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### I. THE COLLEGE.

The main College building is situated on a hill one hundred feet above the Susquehanna River, and overlooks scenery of unsurpassed beauty. It was designed by Thomas U. Walter, LL. D., architect of the dome and wings of the Capitol at Washington, D. C., and is in the Grecian style, combining dignity and simplicity. The Building has a façade of three hundred and twenty feet. The central portion is eighty feet square, and is strengthened in front by four massive columns. On the first floor are six recitation rooms. On the second floor are the halls of Theta Alpha and Euepia Literary Societies, the Library-room, Reading-room, and Museum of Natural History.

In the third story is Commencement Hall, with a seating capacity of fifteen hundred.

The wings on the eastern and western sides, respectively, of the Main Building, are each one hundred and twenty feet in length, and four stories in height, and are used for students' rooms. Each sleeping-room above the second floor is supplied with a fire escape.

Several thousand dollars have been expended recently in improving the College building.

### II. BUCKNELL HALL.

Bucknell Hall is the Chapel of the University. In it all the students of the various departments meet daily for worship. The exercises consist in the reading of Scripture, in singing, and in prayer.

### III. BUCKNELL OBSERVATORY.

The Observatory was erected in 1887, and is designed for the use of students in Practical Astronomy.

The entire equipment is new and represents the latest improvements in astronomical instruments. It consists of a Clark Equatorial Telescope of 10 inches aperture and  $12\frac{1}{2}$  feet focal length, furnished with a fine position Micrometer and all the usual accessories; a Spectroscope, with prism and grating by Brashear, the grating having 14,500 lines to the inch; a 3-inch Prismatic Transit, with a 13-wire movable Micrometer by T. Ertel & Sons; a Fauth Chronograph with Bond Spring Governor; a Waldo Precision Clock for sidereal time, with mercurial compensation, break circuiting apparatus; Daniell's battery and telegraph sounders; a Seth Thomas Clock for solar time; a Sextant; a 3-inch Altitude Azimuth Refractor; a set of Meteorological instruments; Celestial globes and maps, and standard works on Theoretical and Practical Astronomy.

#### IV. THE BUCKNELL LABORATORY.

The Laboratory was erected in 1890, and is a building forty-three feet in width and eighty-six feet in length, with two stories above the basement. In the first story, which has a clear height of fifteen feet, are a lecture-room, with seating for one hundred and twenty-five students, and a large working-room, in which are tables for individual work in Chemical Analysis; the second floor contains a lecture-room for the class in Physics, and rooms for laboratory work in Organic Science; the basement has a dark room for Photometry, a room for Applied Chemistry, another for Electricity, and a fire-proof room.

#### V. THE TUSTIN GYMNASIUM.

The basement of the Gymnasium is built of stone, and contains rooms for students' lockers, dressing-rooms, and shower-baths. The second story is built of brick, rising twenty-two feet from the main floor to the square, and is open to the roof. At the height of twelve feet a running-track gallery, six feet wide, surrounds the room.

#### VI. THE UNIVERSITY ATHLETIC FIELD.

The field is conveniently located at the foot of "College Hill," and has been graded and fitted up for out-door sports. In the northwest corner, at the main entrance to the college grounds, a shaded section has been set aside for tennis. The athletic field is sufficiently large for foot-ball, base-ball, and lacrosse. A running track, a quarter-mile in length, has recently been constructed on the eastern part of the campus. Tustin Gymnasium is located at the end of the field, so as to be near the centre of exercise, and easily accessible to the trainers and students.

#### VII. THE ACADEMY.

**1. The Main Building** of the Academy is situated on "College Hill," and is fifty feet in width by eighty feet in length, and three stories in height. On the first floor is a dining-room, thirty feet by thirty-six feet; two recitation-rooms, a reception-room, and the Principal's office; on the second floor are suites of rooms for the Principal and his family and for the Matron, and a society hall; the third floor is occupied by students' rooms. These are twenty feet by twelve feet, and fourteen feet high. Over three thousand dollars have been recently expended in the improvement of this building.

**2. The East Hall** of the Academy is the Bucknell Cottage for young men, and is contiguous to the main building and connected with it by a covered passage-way. It is of brick, three stories high, sixty feet in length and forty feet in width, and is finished in natural wood. The building contains a recitation-room, teachers' apartments, and rooms for students. The rooms have high ceilings, large double windows with inside shutters, and two commodious closets each.

Both buildings are supplied with hot and cold water and are warmed by steam.



## VIII. THE DEPARTMENT FOR WOMEN.

The buildings and campus of this department are set apart to the use of women taking courses in the College, in the Institute, and in the School of Music.

**1. The Main Building** contains, on the first floor, an office for the Principal and the Registrar, a reception-room, the office of the Director of Music, five music-rooms, two recitation-rooms, and a dining-hall; on the second floor a school-room and a parlor elegantly furnished; on the third floor a library-room, teachers' apartments, and students' rooms.

**2. The South Hall**, erected in 1869, is devoted to students' rooms, except the third story, which is used as a gymnasium. This gymnasium has been lately renovated and equipped.

**3. The Bucknell Cottage** stands to the southwest of the Main Building, and is connected with it by an enclosed passage-way. It is built of brick, in the Queen Anne style of architecture, and has dimensions of one hundred feet by thirty-three feet. The interior is finished in natural wood, and is equipped, in matters of light, heat, and ventilation, with modern improvements.

The portion allotted to students' rooms affords accommodations for forty occupants. These rooms are in suites on the general plan of a centre parlor, with bed-rooms and closets on either side. In this building is the **Studio**, a spacious room with such adjustments for the admission of light and supply of unencumbered wall surfaces as adapt it for the execution and display of art products.

All the buildings are supplied with hot and cold water. Steam pipes and radiators warm every room.

**4. The Campus** of the Women's Department comprises six acres, separated from the college grounds by Loomis Street, and contains a grove of trees.

## IX. THE PRESIDENT'S HOUSE.

The Corporation also owns a house for the use of the President of the University.

# THE COLLEGE.

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---

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ROBERT GREEN SLIFER,	<i>Lewisburg.</i>	Mrs. C. V. Slifer
ARTHUR ANSON SMITH,	<i>Liberty.</i>	No. 12, West Wing
RUTH HORSFIELD SPRAGUE,	<i>Lewisburg.</i>	Mr. John Sprague
JAMES PALM STOBER,	<i>Kleinfeltersville.</i>	No. 7, West Wing
BENJAMIN FRANKLIN THOMAS,	<i>Clifford.</i>	No. 11, West Wing
FRANK WILLIAM TILLEY,	<i>Bridgeton, N. J.</i>	No. 32, East Wing
BRUCE HURST TRIMMER,	<i>York Springs.</i>	No. 28, East Wing
MORRIS CRAMER VAN GUNDY,	<i>Lewisburg.</i>	Prof. Christian Van Gundy
PAUL EMIL WEITHAASE,	<i>Lewisburg.</i>	Home
RUTLEDGE THORNTON WILTBANK, JR.,	<i>Philadelphia.</i>	No. 14, West Wing

SENIORS, 43.

## THE JUNIOR CLASS.

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NAME.	RESIDENCE.	ROOM.
CHARLES FAYETTE ARMOUR,	<i>Mill Village.</i>	Mr. Gottlob Krise
FLOYD GEORGE BALLENTINE,	<i>Clarion.</i>	No. 24, East Wing
GEORGE LIVINGSTON BAYARD,	<i>Chestnut Hill.</i>	No. 33, West Wing
IRVING HERBERT BUCKMINSTER,	<i>Vineland, N. J.</i>	No. 163, West Wing
JOHN EMMETT CALVIN,	<i>Transfer.</i>	No. 21, East Wing
JAMES LLEWELLYN CATTELL,	<i>Denver, Col.</i>	No. 24½, East Wing
EMMANUEL WILSON COBER,	<i>Pine Hill.</i>	No. 19, West Wing
EVARTS CLANCY CONOVER,	<i>Hamilton Square, N. J.</i>	No. 18, West Wing
HUBERT FRANCIS COOK,	<i>Forestville, N. Y.</i>	No. 18, East Wing
WILLIAM ALBION COOK,	<i>Forestville, N. Y.</i>	No. 18, East Wing
OLIVER JOHN DECKER,	<i>Duboistown.</i>	No. 17, West Wing
AMOS KAPP DEIBLER,	<i>Deibler's.</i>	No. 13, West Wing
GRACE AMELIA DEWOLFE,	<i>Newark, N. J.</i>	Institute
WILLIAM HENRY ENGLE,	<i>Sunbury.</i>	No. 16, East Wing



NAME.	RESIDENCE.	ROOM.
ALBERT ROWLAND GARNER,	<i>Downingtoun.</i>	Chapter House
BENJAMIN W. GRIFFITH,	<i>St. Clair.</i>	No. 23, East Wing
LEROY HALL,	<i>Union City.</i>	No. 17, East Wing
ELIZABETH SHELDON HAWLEY,	<i>Northumberland.</i>	Home
JOSEPH CHALMERS HAZEN,	<i>Achor, Ohio.</i>	No. 17, East Wing
EDWIN ALDEN HUMESTON,	<i>Meadville.</i>	Chapter House
ALBERT HUTCHINSON,	<i>Holmes.</i>	No. 3, West Wing
ROBERT MANNING IVINS,	<i>Trenton, N. J.</i>	Mr. Gottlob Krise
CHARLES SCULL KEEN,	<i>Cramer Hill, N. J.</i>	No. 26, East Wing
DANIEL HORATIO KRISE,	<i>Lewisburg.</i>	Home
OSCAR ROBERT LEVAN,	<i>Hamburg.</i>	No. 24, West Wing
LIVINGSTON MCQUISTION JR.,	<i>Butler.</i>	Mrs. Howard Slear
CHARLES PAUL MEEKER,	<i>Rahn's Station.</i>	No. 20, West Wing
HOWARD CURTIS MESERVE,	<i>New Haven, Conn.</i>	No. 25, West Wing
WILLIAM ROBERT MORRIS,	<i>Scranton.</i>	No. 12, East Wing
ARTHUR CARLETON MULFORD,	<i>Bridgeton, N. J.</i>	No. 5, East Wing
MAURICE BACON MULFORD,	<i>Bridgeton, N. J.</i>	No. 5, East Wing

NAME.	RESIDENCE.	ROOM.
EDWIN LIGHTNER NESBIT,	<i>Lewisburg.</i>	Mr. J. C. Nesbit
WILLIAM CAREY PURDY,	<i>Corsica.</i>	No. 26, West Wing
FRANK JOSEPH RAWLINSON,	<i>Baltimore, Md.</i>	No. 21, East Wing
REUBEN LA MONT RENTZ,	<i>Montgomery.</i>	No. 22, West Wing
DAVID HOWARD ROBBINS,	<i>Moorestburg.</i>	No. 22, West Wing
MARTIN LUTHER ROSS,	<i>Mifflinburg.</i>	No. 6, East Wing
MARY HOOPES SHARPLESS,	<i>West Chester.</i>	Institute
CULLEN FRAZER SHIPMAN,	<i>Sunbury.</i>	No. 28, West Wing
MYRA AMY SPRAGUE,	<i>Factoryville.</i>	Institute
GERTRUDE STEPHENS,	<i>Lewisburg.</i>	Leroy Stephens, D. D.
MARY STEPHENS,	<i>Lewisburg.</i>	Leroy Stephens, D. D.
HOWARD IRA STEWART,	<i>Monongahela City.</i>	No. 13, East Wing
GEORGE STEPHEN TILLEY,	<i>Bridgeton, N. J.</i>	No. 32, West Wing
WILLIAM THOMPSON TODD,	<i>Allegheny City.</i>	No. 10, West Wing
WILLIAM MYLES WARREN,	<i>German'town.</i>	No. 6, East Wing
BERTHA CELESTINE WATKINS,	<i>Scranton.</i>	Institute

## THE SOPHOMORE CLASS.

NAME.	RESIDENCE.	ROOM.
HENRIETTA FRANCES ALLEN,	<i>Allenwood.</i>	Mrs. H. F. McCarty
AUSTIN CLARK APGAR,	<i>Sunnyside, N. J.</i>	Home
HARRY CLIFFORD BECK,	<i>Philadelphia.</i>	No. 22, East Wing
EDWARD BELL,	<i>Sabbath Rest.</i>	No. 11, West Wing
SARAH MARTHA BLACK,	<i>Lewisburg.</i>	Academy
THOMAS REESE BOWER,	<i>Lewisburg.</i>	F. E. Bower, Esq
CHARLES ERNEST BUNNELL,	<i>Montrose.</i>	No. 26, East Win
MARION AUBREY CARRINGER,	<i>Marienville.</i>	No. 7, East Wing
GEORGE HENRY CATTERALL,	<i>Wyoming.</i>	No. 11, East Wing
MARTIN BELL CHRISTY,	<i>Hollidaysburg.</i>	No. 8, West Wing
EDWIN STANTON COMREY,	<i>Mahanoy City.</i>	Chapter House
HENRY LEONARD CRAIG,	<i>Philadelphia.</i>	No. 13, West Wing
JOSEPH HENRY DEPPEN,	<i>Mt. Carmel.</i>	No. 3, West Wing
IRVIN AMON DEWITT,	<i>Fisher's Ferry.</i>	No. 27, West Wing
GLEN GRIFFIN DURHAM,	<i>Watsonstown.</i>	Mr. W. A. Durham
ANDREW NEVINGER EVANS,	<i>Montandon.</i>	Mr. W. L. Snyder
JESSE DONALD EVANS,	<i>Mahanoy City.</i>	Chapter House
LIZZIE LILLIAN FOUST,	<i>Milton.</i>	Mr. Tilman Foust
GEORGE AUSTIN GRIM,	<i>Kutztown.</i>	No. 27, West Wing



NAME.	RESIDENCE.	ROOM.
WINFIELD SCOTT HOLLAND,	<i>Philadelphia.</i>	No. 3, East Wing
GEORGE EDWARD JENKINSON,	<i>Atlantic Highlands, N. J.</i>	No. 30, East Wing
ERNEST EDWARD JOHNSON,	<i>Lewisburg.</i>	Prof. B. R. Johnson
ANNA CURZON JUDD,	<i>Lewisburg.</i>	Rev. J. T. Judd
MARY ANNA KLINE,	<i>Winfield.</i>	Mr. Geo. M. Kline
JOHN ARTHUR KOONS,	<i>Huntingdon Mills.</i>	No. 30, West Wing
RUSH HARRISON KRESS,	<i>Allentown.</i>	No. 8½, East Wing
CHARLES FREDERICK KULP,	<i>Philadelphia.</i>	No. 20, West Wing
SARAH ESTHER LEE,	<i>Jermyn.</i>	Institute
HARRY FELT LIEPSNER,	<i>Philadelphia.</i>	Chapter House
ELIZA JOHNSTON MARTIN,	<i>Lewisburg.</i>	Professor Martin
THOMAS JOHNSON MORRIS,	<i>Port Jervis, N. Y.</i>	No. 6, East Hall
EDWARD AMBLER MOYER,	<i>Norristown.</i>	No. 14, East Wing
HERBERT MCKINNEY OLMSTED,	<i>Emporium.</i>	No. 25, East Wing
CHARLES JUDD PEARSE,	<i>Erie.</i>	Mrs. Fannie B. Dutton
EMELIE LOUISE POOLEY,	<i>Ridgefield, N. J.</i>	Institute
EMMA CLARE PROBASCO,	<i>Bridegton, N. J.</i>	Institute
EDGAR REED,	<i>Lairdsville.</i>	No. 4, West Wing
STEPHEN FLOCK REED,	<i>Lawrence Station, N. J.</i>	Mr. Charles Roos
WALTER HARTRANFT RENN,	<i>Turbotville.</i>	No. 13, East Wing
GREEN MILES ROBBINS,	<i>Mooresburg.</i>	No. 15, West Wing
GERTRUDE WILBUR ROOS,	<i>Lewisburg.</i>	Mr. Charles Roos

NAME.	RESIDENCE.	ROOM.
FRANK MONROE SCHAEFFER,	<i>Shelley.</i>	No. 29, East Wing
GEORGE EDWARD SCHILLING,	<i>Cumberland, Md.</i>	No. 12, East Wing
JOHN SHERMAN,	<i>Philadelphia.</i>	No. 29, West Wing
ANDREW JACKSON SHERWOOD,	<i>Union City.</i>	No. 31, West Wing
EDNA SCHUYLER SHIRES,	<i>Limestoneville.</i>	Mrs. Margaret Davis
THORNTON MOORE SHORKLEY,	<i>Lewisburg.</i>	Mr. Elisha Shorkley
HARRY COLLINS SIMONS,	<i>Oak Lane, Phila.</i>	No. 20, East Hall
HARVEY ELMER STABLER,	<i>Warrensville.</i>	No. 12, West Wing
FRANCIS MARION STAPLETON,	<i>Lewisburg.</i>	Rev. A. Stapleton
EUGENE CONSTANT SWITZER,	<i>St. Mary's.</i>	No. 25, East Wing
ISAAC RAYMOND VINCENT,	<i>Watsonstown.</i>	Mr. Geo. W. Vincent
EZRA JAY WAGER,	<i>Hillsgrove.</i>	No. 7, West Wing
HARRY BORNETRAEGER WASSELL,	<i>Pittsburg.</i>	No. 3, East Wing
MARGARET ELLEN WENSEL,	<i>Lewisburg.</i>	Mr. James Wensel
CLARENCE ANDREW WEYMOUTH,	<i>Lock Haven.</i>	No. 11, East Wing
MABEL ESTELLA WHEELER,	<i>Erie.</i>	Institute
AUGUSTA GENEVIEVE WHITE,	<i>Bradford.</i>	Institute
JOHN HERBERT WILLIAMS,	<i>Forest City.</i>	No. 15, West Wing
GRACE SOPHRONIA WOODARD,	<i>Bradford.</i>	Institute
ALICIA ZIERDEN,	<i>Johnsonburg.</i>	Institute

## THE FRESHMAN CLASS.

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NAME.	RESIDENCE.	ROOM.
GEORGE WELLS ALEXANDER,	<i>Philadelphia.</i>	No. 7, East Hall
ARCHIBALD WATSON ANDERSON,	<i>Newport, N. J.</i>	No. 7, East Wing
FRANK ANDERSON,	<i>Wilmington, Del.</i>	Rev. J. T. Gallagher
CALEB BARRETT AYARS, JR.,	<i>Salem, N. J.</i>	No. 5, West Wing
LYNDON ERNEST AYRES,	<i>Clifford.</i>	No. 11, West Wing
ANDREW BEREND SHELLY BECHTEL,	<i>Boyetown.</i>	No. 2, West Wing
SUSAN ELSIE BENTZ,	<i>New Columbia.</i>	Rev. J. H. Bentz
CHARLES FRANKLIN BIDELSPACHER,	<i>Hepburn.</i>	No. 8, East Wing
FRANK EUGENE BURPEE,	<i>Lewisburg.</i>	No. 6, East Hall
EDWIN CHAPIN CALDWELL,	<i>Milton.</i>	Mr. J. M. Caldwell
MARY PROTHEROE DAVIES,	<i>Scranton.</i>	Institute
ALFRED ALLYNE EARLE,	<i>Lewisburg.</i>	Rev. I. N. Earle
THOMAS EVANS, JR.,	<i>Freeland.</i>	Chapter House
ALLEN OSCAR FINN,	<i>Clifford.</i>	No. 11, West Wing
MONROE KOHLER FOWLER,	<i>Olean, N. Y.</i>	Mr. John Sprague
MARIA MAUDE GODDARD,	<i>Philadelphia.</i>	Institute
LEE MCCLOSKEY GOODMAN,	<i>Loganton.</i>	No. 15, East Wing
ROBERT YOUNG GRANT,	<i>Ridgway.</i>	No. 28, East Wing



NAME.	RESIDENCE.	ROOM.
SARAH MABEL GRIER,	<i>Salem, N. J.</i>	Institute
WILLIAM VORIS GUNDY,	<i>Lewisburg.</i>	Mr. J. A. Gundy
HARRIET MILLER GUTHRIE,	<i>Lewisburg.</i>	Mrs. A. W. Guthrie
ADELAIDE WOOD GUTHRIE,	<i>Lewisburg.</i>	Mrs. A. W. Guthrie
JAMES OSBORN HACKENBERG,	<i>Milton.</i>	Hon. Wm. H. Hackenberg
JESSE CORNELIUS HIGGINS,	<i>Lewisburg.</i>	Mr. D. P. Higgins
LOUIS V. HOTTENSTEIN,	<i>Kutztown.</i>	No. 28, West Wing
ELBERT HUFF,	<i>Stonington.</i>	No. 5, West Wing
AMOS NORMAN JACQUEMIN,	<i>Blossburg.</i>	Mr. J. C. Kerstetter
WILLIAM IRVINE KING,	<i>Uniontown.</i>	No. 12, East Wing
WILLIAM LAHR KLOSE,	<i>Vicksburg.</i>	Mr. Solomon Klose
CREIGHTON M. KONKLE,	<i>Montoursville.</i>	No. 8, East Wing
CHARLES BYRON LESHER,	<i>Northumberland.</i>	No. 18, East Hall
ERNEST JOHNSON MAGEE,	<i>Clarion.</i>	No. 13, East Hall
HARRY LOUIS MAIZE,	<i>Lewisburg.</i>	Mrs. Hannah M. Maize
ALBERT FUNK MESCHTER,	<i>East Greenville.</i>	No. 2, West Wing
ELMER HENRY MYERS,	<i>Buckingham.</i>	No. 2, East Wing
WILLIAM JOHN PEACOCK,	<i>Pittsburg.</i>	Mrs. Wm. Gibson
EDITH LEE PHILLIPS,	<i>Plymouth.</i>	Institute
RAYMOND GRIFFITH PIERSON,	<i>Philadelphia.</i>	No. 6, West Wing
ROBERT JEROME POWELL,	<i>Ridgway.</i>	Mrs. G. A. Kauffman
OSCAR NAYLOR RAMBO,	<i>Pottstown.</i>	No. 5, East Wing
MORRIS FLOYD READING,	<i>Williamsport.</i>	No. 14, West Wing
PHILIP REILLY,	<i>Philadelphia.</i>	No. 2, East Wing

NAME.	RESIDENCE.	ROOM.
HUGO BRUNO CHARLES RIEMER,	<i>Lewisburg.</i>	No. 27, East Wing
JOSEPH ZERBE ROWE,	<i>Reading.</i>	No. 6, West Wing
WALTER ELMER RUCH,	<i>Northumberland.</i>	No. 21, West Wing
DAVID ASBURY SAUSSER,	<i>Shamokin.</i>	No. 5, East Wing
KATHRYN EDNA SCHWENK,	<i>Lewisburg.</i>	Mr. J. E. K. Schwenk
BESSIE MAY SHEPARD,	<i>Baltimore.</i>	Institute
EDITH MORTON SHEPARD,	<i>Baltimore.</i>	Institute
EDGAR THOMPSON SHIELDS,	<i>Lewisburg.</i>	Mr. William Shields
SAMUEL CALVIN SMITH,	<i>Hollidaysburg.</i>	No. 10, East Hall
JAY F. SNYDER,	<i>Cooperstown.</i>	No. 29, East Wing
CLOYD NILLIS STEININGER,	<i>Lewisburg.</i>	Mr. A. R. Steininger
JOHN STORER STEPHENS,	<i>Lewisburg.</i>	Leroy Stephens, D. D.
WILLIAM ESPY THOMPSON,	<i>Pittston.</i>	No. 15, West Wing
HARLAND ADAMS TRAX,	<i>Oil City.</i>	No. 24, East Wing
HERBERT RINARD VON DORSTER,	<i>Catawissa.</i>	Mrs. Howard Slear
FRANCIS THOMAS WALKER,	<i>Wilmington, Del.</i>	Rev. J. T. Gallagher
LESLIE HARVEY WALTON,	<i>Chester.</i>	No. 15, East Wing
FRANK WESLEY WARD,	<i>Ridgway.</i>	No. 26, East Wing
BESSIE HELEN WELLS,	<i>Moorestown, N. J.</i>	Institute
FLORENCE GRACE WILLIAMS,	<i>Scranton.</i>	Institute
FRANCIS ADAM WITMER,	<i>Sunbury.</i>	Chas. B. Witmer, Esq.
CHARLES WAGNER WOLFE,	<i>Bangor.</i>	Rev. J. T. Gallagher
JENNIE MAY WOOD,	<i>Horseheads, N. Y.</i>	Institute
FRESHMEN, 65.		

PURSUING SPECIAL STUDIES.

NAME.	RESIDENCE.	ROOM.
JOHN H. BOGERT,	<i>Paterson, N. J.</i>	No. 27, East Wing
GEORGE THOMAS COOPER,	<i>Lewistown.</i>	Home
JOHN ARTHUR HAGUE,	<i>Plymouth.</i>	No. 4, West Wing
ARTHUR EDWIN JAMES,	<i>Philadelphia.</i>	Chapter House
JAMES EDISON BROWN PARKER,	<i>Mahanoy City.</i>	Chapter House
EMMONS LEDYARD PECK,	<i>Carbondale.</i>	No. 3, East Wing
EMILY BELLE BOAS SOBER,	<i>Sunbury.</i>	Home
MARY ELIZABETH WILSON,	<i>Lewisburg.</i>	Mr. Thomas S. Wilson
	SPECIALS, 8.	

SUMMARY.

Graduate Students, . . . . .	25
The Senior Class, . . . . .	43
The Junior Class, . . . . .	47
The Sophomore Class, . . . . .	61
The Freshman Class, . . . . .	65
Pursuing Special Studies, . . . . .	8
Total in the College, . . . . .	249
In other departments, . . . . .	170
Total in all departments, . . . . .	419



## ADMISSION.

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### TO FRESHMEN STANDING.

**I. General Requirements.**—Examinations for admission to the Freshman Class will be held on Monday of Commencement week. Candidates will assemble in Bucknell Hall at 8.30 A. M.

Similar examinations are also held on the day preceding the opening of each term. In special cases, candidates may be examined and admitted at other times in the year.

Candidates are expected to be well prepared in the English branches named below. They will be as strictly examined in these studies as in the Ancient Languages and Mathematics.

There must be furnished to the President by the candidate satisfactory testimonials of good moral character, and, if from another college, a certificate of honorable dismissal must be presented.

The required age for admission to the Freshman Class is fifteen years.

**II. Particular Requirements.**—They are as follows for the respective courses:

#### I. THE CLASSICAL COURSE.

To enter the Classical Course the student must sustain an examination in:—  
ENGLISH.

1. Writing from dictation.
2. English Grammar.
3. Elements of Rhetoric—Invention, Style, and Punctuation.
4. A brief composition upon a subject assigned at the time of the examination.

No candidate will be accepted in English whose work is notably defective in spelling, punctuation, idiom, or division into paragraphs.

**I. Reading.**—A certain number of books will be set for reading. The candidate will be required to present evidence of a general knowledge of the subject-matter, and to answer simple questions on the lives of the authors. The form of examination will usually be the writing of a paragraph or two on each of several topics, to be chosen by the candidate from a considerable number—perhaps ten or fifteen—set before him in the examination paper. The treatment of these topics is designed to test the candidate's power of clear and accurate expression, and will call for only a general knowledge of the substance of the books. In place of a part or the whole of this test, the candidate may present an exercise book, properly certified by his instructor, containing compositions or other written work done in connection with the reading of the books.

The books set for this part of the examination will be:

1898: Milton's *Paradise Lost*, Books I and II; Pope's *Iliad*, Books I and XXII; The Sir Roger de Coverley Papers in *The Spectator*; Goldsmith's *The*

Vicar of Wakefield; Coleridge's *Ancient Mariner*; Southey's *Life of Nelson*; Carlyle's *Essay on Burns*; Lowell's *Vision of Sir Launfal*; Hawthorne's *The House of the Seven Gables*.

1899: Dryden's *Palamon and Arcite*; Pope's *Iliad*, Books I, VI, XXII, and XXIV; The Sir Roger de Coverley Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Coleridge's *Ancient Mariner*; De Quincey's *The Flight of a Tartar Tribe*; Cooper's *Last of the Mohicans*; Lowell's *Vision of Sir Launfal*; Hawthorne's *The House of the Seven Gables*.

1900: Dryden's *Palamon and Arcite*; Pope's *Iliad*, Books I, VI, XXII, and XXIV; The Sir Roger de Coverley Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Scott's *Ivanhoe*; De Quincey's *The Flight of a Tartar Tribe*; Cooper's *The Last of the Mohicans*; Tennyson's *The Princess*; Lowell's *The Vision of Sir Launfal*.

1901: *Ivanhoe*; Pope's *Iliad*, Books I, VI, XXII, and XXIV; The Sir Roger de Coverley Papers; *The Vicar of Wakefield*; *The Last of the Mohicans*; *The Princess*; *The Ancient Mariner*; *Silas Marner*, and *Merchant of Venice*.

**II. Study and Practice.**—This part of the examination presupposes the thorough study of each of the works named below. The examination will be upon subject-matter, form, and structure.

The books set for this part of the examination will be:

1898: Shakspeare's *Macbeth*; Burke's *Speech on Conciliation with America*; De Quincey's *The Flight of a Tartar Tribe*; Tennyson's *The Princess*.

1899: Shakspeare's *Macbeth*; Milton's *Paradise Lost*, Books I and II; Burke's *Speech on Conciliation with America*; Carlyle's *Essay on Burns*.

1900: Shakspeare's *Macbeth*; Milton's *Paradise Lost*, Books I and II; Burke's *Speech on Conciliation with America*; Carlyle's *Essay on Burns*.

1901: *Macbeth*; Burke's *Conciliation with America*; Macaulay's *Milton* and *Addison*, and Milton's *Lycidas*, *Comus*, *L'Allegro* and *Il Penseroso*.

#### MATHEMATICS.

1. Arithmetic, including the Metric System.

2. Algebra, including Quadratic Equations. The requirements in this study are intended to include the treatment of Radicals, and will be most nearly met by the use of *Well's University Algebra*.

3. Plane Geometry.

#### LATIN.

1. Latin Grammar—Allen and Greenough's, Harkness', or Bennett's.

2. Daniell's Latin Prose Composition.

3. Four Books of Cæsar's Commentaries.

4. Six orations of Cicero.

5. Six Books of Vergil's *Æneid*.

#### GREEK.

1. Greek Grammar—Hadley and Allen's or Goodwin's.

2. The equivalent of Jones' Greek Prose Composition—20 Lessons.

3. Greek Reader.

4. Four Books of Xenophon's *Anabasis*.

5. Three Books of Homer's *Iliad*.



**HISTORY.**

1. History of Rome.
2. History of Greece.
3. Elements of United States History.

**SCIENCE.**

1. Geography—Descriptive, Political, and Physical.
2. The student is recommended to read some elementary work on Physic and on Physiology, also Morse's "First Book in Zoölogy," Gray's "How Plants Grow," and Dana's "Geological Story Briefly Told." This reading should be done before entering upon the studies of the Sophomore year. The necessary books can be obtained in the University Library.

In any of the subjects of examination, satisfactory equivalents will be accepted for the text-books named.

**II. THE PHILOSOPHICAL COURSE.**

I. THE LATIN DIVISION.—To enter the Latin Division of the Philosophical Course, the candidate must sustain an examination in the above-named studies, except Greek, and in Elementary Physics and Physiology.

II. THE GREEK DIVISION.—To enter the Greek Division of the Philosophical Course, the candidate must sustain an examination in the above-named studies, except Cicero and Vergil, and in Elementary Physics and Physiology.

**III. THE SCIENTIFIC COURSE.**

To enter the Scientific Course, the candidate must sustain examination in English Grammar, Elements of Rhetoric, English Composition, Arithmetic, including the Metric System; Algebra, through Quadratic Equations, and Plane Geometry; Latin Grammar, Latin Composition (Daniell's Part I, or an equivalent), Cæsar's Commentaries, Four Books; Elementary Physics, Physiology and Hygiene, and Botany; Geography, Mathematical, Political, and Physical; History of the United States, General History, and Civil Government.

**ADMISSION ON CERTIFICATE.**

Graduates of Bucknell Institute in any of the courses will be admitted to the Sophomore year of the corresponding courses in the College.

Graduates from Bucknell Academy in the Classical Course, or in the Scientific Course, will be admitted to the corresponding course in College upon the certificate of the Principal of the Academy.

Graduates of Pennsylvania State Normal Schools are admitted to the Scientific Course without examination.

Students who have completed a course of study in preparatory schools of high grade may be admitted upon the certificate of the Principal of the school from which they come.

**CONDITIONAL ADMISSION.**

A candidate failing to pass in one or more of the subjects required for admission, may, at the discretion of the Faculty, be admitted to his class conditionally, to make up his deficiencies by extra study. When they are made up, he will be received into full standing in his class.



**SPECIAL STUDENTS.**

Students who do not desire to take a full regular course, can enter and select special shorter courses, with the sanction of the Faculty; but, in all cases, satisfactory examinations must be passed upon the subjects required for admission to the Freshman class of the course from which they intend to select.

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**TO ADVANCED STANDING.**

**I. General Requirements.**—A proportionate increase of age is required for admission to advanced classes over that required for admission to Freshman standing. Other general requirements are the same as for admission to the Freshman Class.

**II. Particular Requirements.**—Candidates for admission to advanced classes are examined both as for admission to Freshman standing and also in the studies that have been pursued by the class which they desire to enter.

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**LOCAL EXAMINATION FOR ADMISSION.**

Arrangements have been made for conducting entrance examinations at Philadelphia, Pittsburg, Harrisburg, and Scranton. Those intending to present themselves for examination at either of these places should inform the President of the University of their intention, and the necessary information as to details will be furnished.

The next examination will be held Friday, June 17th, 1898.

## COURSES OF STUDY.

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The following Courses of Study may be pursued in the College:

I. **The Classical Course** extends through four years, and aims to furnish a liberal education in classical and modern literature, the sciences and the arts. It comprises, substantially, the studies of the established college curriculum, with the addition of such branches as modern life seems to demand. The studies in the Freshman year and in the first two terms of the Sophomore year are all required; in the third term of the Sophomore year and in the Junior and Senior years, most of the studies are elective. Students who have satisfactorily pursued this course are admitted to the degree of Bachelor of Arts.

II. **The Philosophical Course**, with Latin or Greek, in each of its two divisions, also extends through four years, and aims to furnish a thorough training in advanced studies to those who desire to pursue but one of the Ancient Languages. This course contains four terms of such language study, be it of Latin or Greek, most of the other studies of the Classical Course, with some addition of Scientific subjects. Those who have completed the studies of the course are admitted to the degree of Bachelor of Philosophy.

III. **The Scientific Course** extends through four years, and is substantially the same as the Philosophical Course, with the substitution of additional Mathematical, Scientific and Modern Language studies for Latin and Greek. Those who have completed the course are admitted to the degree of Bachelor of Science.

In the selection of optional studies in the above courses, the choice is made with the approbation of the Faculty.

IV. **The Eclectic Course** is not limited to any definite time, and does not lead to any degree. Every student is required to select at least three studies from those taught during any given term, and these are to be pursued at the same time. Students pursuing selected courses will perform rhetorical work and attend chapel and lectures the same as regular students. Students will not be allowed to pursue studies for which they are not fully qualified by their previous training.

V. **Advanced Courses** in Literature, Philosophy, and Science have been established, leading respectively to the degrees of Master of Arts, Master of Philosophy, and Master of Science. These courses are open to graduates of Bucknell University only. Particulars may be learned by addressing the President.

## CURRICULA.

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### I. THE CLASSICAL COURSE.

*Leading to the Degree of Bachelor of Arts.*

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#### FRESHMAN YEAR.

I. TERM—	{ Geometry, Algebra, Cicero de Senectute and Livy, Odyssey, Greek Prose Composition,	Lectures on Hygiene, Lectures on the Essay, English Composition, Elocution.
II. TERM—	{ Trigonometry, Algebra, Livy, Herodotus and Thucydides, Greek Testament,	Lectures on Derivatives, English Composition, Elocution.
III. TERM—	Analytical Geometry, Paterculus and Pliny, Lysias' Orations, Greek Testament,	Chemistry, Course 1, English Composition, Elocution.

#### SOPHOMORE YEAR.

I. TERM—	Chemistry, Course 2, Horace, Rhetoric,	Linear Perspective, English Composition, Elocution.
II. TERM—	Animal Physiology, Demosthenes, English Literature,	History of Art, English Composition. Elocution.
III. TERM—	Botany, German,	English Versification, English Composition, Elocution.

#### ELECTIVE STUDIES:

<i>Juvenal,</i> <i>English Oratory,</i> <i>Elocution,</i>	<i>Higher Analytical Geometry,</i> <i>Civil Engineering,</i> <i>Anthropology,</i>  <i>Chemistry, Course 4.</i>
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## JUNIOR YEAR.

I. TERM—Mechanics,  
French,

Elocution.

History of Education,  
Orations,

## ELECTIVE STUDIES:

*Æschylus and Sophocles,*  
*Plautus and Terence,*  
*Quintilian,*  
*German, Course 2,*  
*History, Course 6,*  
*History, Course 7,*  
*Parliamentary Law,*

*Differential Calculus,*  
*Surveying,*  
*Chemistry, Course 5,*  
*Zoölogy,*  
*Comparative Anatomy,*  
*Microscopy,*  
*Sociology.*

II. TERM—Physics,  
Orations,

Electricity and Magnetism,  
Elocution.

## ELECTIVE STUDIES:

*Euripides,*  
*Roman Philosophy,*  
*German, Schiller,*  
*French, Course 2,*  
*Hebrew,*  
*English Bible,*  
*History, Course 4,*

*Logic,*  
*Advanced Composition,*  
*Integral Calculus,*  
*Advanced Algebra,*  
*Chemistry, Course 6,*  
*Animal Histology,*  
*Embryology.*

III. TERM—Astronomy,  
Orations,

Geology,  
Elocution.

## ELECTIVE STUDIES:

*Aristophanes,*  
*Latin Inscriptions,*  
*German, Goethe,*  
*French, Course 3,*  
*Hebrew,*  
*English Bible,*

*American Civics,*  
*History, Course 5,*  
*Physics,*  
*Chemistry, Course 7,*  
*Biology,*  
*Plant Histology,*

And subjects offered in the third term of the Sophomore year.

## SENIOR YEAR.

I. TERM—Psychology,

Orations.

Literature,

## \* ELECTIVE STUDIES:

*Demosthenes de Coróná,*  
*Tacitus, Annals,*  
*German, Lessing,*  
*French, Course 4,*

*Anglo-Saxon,*  
*History, Course 1,*  
*Practical Astronomy,*  
*Geology,*

*Chemistry, Course 8.*

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\* Seniors may take any of the electives of the Junior year for corresponding terms.

## II. TERM—Ethics,

Orations.

History of Philosophy,

## \* ELECTIVE STUDIES:

Plato,  
 German, Course 6,  
 French, Course 5,  
 History, Course 2,

Economics,  
 Roman Law,  
 Human Anatomy,  
 Chemistry, Course 9.

## III. TERM—Theism,

Orations.

Greek Literature,

## ELECTIVE STUDIES:

Greek Testament,  
 Comparative Philology,  
 German, Course 7,  
 French, Course 6,

Shakspeare,  
 History, Course 3,  
 Constitutional Law,  
 Chemistry, Course 10,

*Materia Medica.*

## II. THE PHILOSOPHICAL COURSE.

*Leading to the Degree of Bachelor of Philosophy.*

## A. Latin Division.

## FRESHMAN YEAR.

I. TERM— { Geometry,  
                   { Algebra,  
                   Cicero de Senectute and Livy,  
                   German,

Lectures on Hygiene,  
 Lectures on the Essay,  
 English Composition,  
 Elocution.

II. TERM { Trigonometry,  
                   { Algebra,  
                   Livy,  
                   German,

Lectures on Derivatives,  
 English Composition,  
 Elocution.

III. TERM—Analytical Geometry,  
 Patereulus and Pliny,  
 French,

Chemistry, Course 1,  
 English Composition,  
 Elocution.

## SOPHOMORE YEAR.

I. TERM—Chemistry, Course 2,  
 Rhetoric,  
 Horace,

Linear Perspective,  
 English Composition,  
 Elocution.

\* Seniors may take any of the electives of the Junior year for corresponding terms.

- |  |   |
|--|---|
| II. TERM—Animal Physiology,<br>English Literature,<br><i>Advanced Algebra</i> , or<br><i>Chemistry, Course 3</i> . | History of Art,<br>English Composition,<br>Elocution. |
| III. TERM—Botany,<br>English Composition,  | English Versification,<br>Elocution.                  |

## ELECTIVES :

- |  |   |
|--|---|
| <i>Juvenal</i> ,<br><i>English Oratory</i> ,<br><i>Elocution</i> , | <i>Higher Analytical Geometry</i> ,<br><i>Civil Engineering</i> ,<br><i>Chemistry, Course 4</i> , |
| <i>Anthropology</i> .  |   |

## JUNIOR YEAR.

- |                               |                                    |
|-------------------------------|------------------------------------|
| I. TERM—Mechanics,<br>French, | History of Education,<br>Orations, |
| Elocution.                    |                                    |

## ELECTIVE STUDIES :

- |   |   |
|---|---|
| <i>Plautus and Terence</i> ,<br><i>German, Course 2</i> ,<br><i>History, Course 6</i> ,<br><i>History, Course 7</i> ,<br><i>Parliamentary Law</i> ,<br><i>Sociology</i> , | <i>Differential Calculus</i> ,<br><i>Surveying</i> ,<br><i>Chemistry, Course 5</i> ,<br><i>Zoölogy</i> ,<br><i>Comparative Anatomy</i> ,<br><i>Microscopy</i> . |
| II. TERM—Physics,<br>Orations,  | Electricity and Magnetism,<br>Elocution.  |

## ELECTIVE STUDIES :

- |  |  |
|--|--|
| <i>Roman Philosophy</i> ,<br><i>German, Schiller</i> ,<br><i>French, Course 2</i> ,<br><i>Hebrew</i> ,<br><i>English Bible</i> ,<br><i>History, Course 4</i> , | <i>Logic</i> ,<br><i>Advanced Composition</i> ,<br><i>Integral Calculus</i> ,<br><i>Chemistry, Course 4 or 6</i> ,<br><i>Animal Histology</i> ,<br><i>Embryology</i> . |
| III. TERM—Astronomy,<br>Orations,  | Geology,<br>Elocution.   |

## ELECTIVE STUDIES :

- |  |  |
|--|--|
| <i>Latin Inscriptions</i> ,<br><i>German, Goethe</i> ,<br><i>French, Course 3</i> ,<br><i>Hebrew</i> ,<br><i>English Bible</i> ,<br><i>American Civics</i> , | <i>History, Course 5</i> ,<br><i>Physics</i> ,<br><i>Chemistry, Course 7</i> ,<br><i>Plant Histology</i> ,<br><i>Biology</i> , |
| And subjects offered in the third term, Sophomore year.  |  |



## SENIOR YEAR.

I. TERM—Psychology, Literature,  
Orations.

## \* ELECTIVE STUDIES :

<i>Tacitus: Annals,</i>	<i>Anglo-Saxon,</i>
<i>German, Lessing,</i>	<i>History, Course 1,</i>
<i>French, Course 4,</i>	<i>Practical Astronomy,</i>
<i>Geology,</i>	<i>Chemistry, Course 8.</i>

II. TERM—Ethics, History of Philosophy,  
Orations.

## \* ELECTIVE STUDIES :

<i>German, Course 6,</i>	<i>History, Course 2,</i>
<i>French, Course 5,</i>	<i>Roman Law,</i>
<i>Economics,</i>	<i>Human Anatomy,</i>
	<i>Chemistry, Course 9.</i>

III. TERM—Theism, Greek Literature,  
Orations.

## \* ELECTIVE STUDIES :

<i>Comparative Philology,</i>	<i>History, Course 3,</i>
<i>German, Course 7,</i>	<i>Constitutional Law,</i>
<i>French, Course 6,</i>	<i>Chemistry, Course 10,</i>
<i>Shakspeare,</i>	<i>Materia Medica.</i>

## B. Greek Division.

## FRESHMAN YEAR.

I. TERM— {	Geometry,	Lectures on Hygiene,
	Algebra,	Lectures on the Essay,
	Odyssey,	English Composition,
	German,	Elocution.

II. TERM— {	Trigonometry,	Lectures on Derivatives,
	Algebra,	English Composition,
	Herodotus and Thucydides,	Elocution.
	Greek Testament,	
	German,	

III. TERM—	Analytical Geometry,	Chemistry, Course 1,
	{ Lysias' Orations,	English Composition,
	{ Greek Testament,	Elocution.
	French,	

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\* Seniors may take any of the electives of the Junior year for corresponding terms.

## SOPHOMORE YEAR.

- |  |   |
|--|---|
| I. TERM—Chemistry, Course 2,<br>Rhetoric,<br>Xenophon's Memorabilia, | Linear Perspective,<br>English Composition,<br>Elocution. |
| II. TERM—Animal Physiology,<br>English Literature,<br>Demosthenes,   | History of Art,<br>English Composition,<br>Elocution.     |
| III. TERM—Botany,<br>English Composition,                            | English Versification,<br>Elocution.                      |

## ELECTIVES:

- |   |   |
|---|---|
| <i>English Oratory,</i><br><i>Elocution,</i><br><i>Chemistry, Course 4,</i> | <i>Higher Analytical Geometry,</i><br><i>Civil Engineering,</i><br><i>Anthropology.</i> |
|---|---|

## JUNIOR YEAR.

- |                               |  |
|-------------------------------|--|
| I. TERM—Mechanics,<br>French, | History of Education,<br>Orations,<br>Elocution. |
|-------------------------------|--|

## ELECTIVE STUDIES:

- |  |   |
|--|---|
| <i>Æschylus and Sophocles,</i><br><i>German, Course 2,</i><br><i>History, Course 6,</i><br><i>History, Course 7,</i><br><i>Parliamentary Law,</i><br><i>Sociology,</i> | <i>Surveying,</i><br><i>Differential Calculus,</i><br><i>Chemistry, Course 5,</i><br><i>Zoölogy,</i><br><i>Comparative Anatomy,</i><br><i>Microscopy.</i> |
| II. TERM—Physics,<br>Orations,   | Electricity and Magnetism,<br>Elocution.  |

## ELECTIVE STUDIES:

- |  |   |
|--|---|
| <i>Euripides,</i><br><i>German, Schiller,</i><br><i>French, Course 2,</i><br><i>Hebrew,</i><br><i>English Bible,</i><br><i>History, Course 4,</i><br><i>Logic.</i> | <i>Advanced Composition,</i><br><i>Advanced Algebra,</i><br><i>Integral Calculus,</i><br><i>Chemistry, Course 4 or 6,</i><br><i>Animal Histology,</i><br><i>Embryology.</i> |
| III. TERM—Astronomy,<br>Orations,  | Geology,<br>Elocution.  |

## ELECTIVE STUDIES:

- |   |   |
|---|---|
| <i>Aristophanes,</i><br><i>German, Goethe,</i><br><i>French, Course 3,</i><br><i>Hebrew,</i><br><i>English Bible,</i><br><i>American Civics,</i><br>And subjects offered in the third term, Sophomore year. | <i>History, Course 5,</i><br><i>Physios,</i><br><i>Chemistry, Course 7,</i><br><i>Plant Histology,</i><br><i>Biology,</i> |
|---|---|

## SENIOR YEAR.

I. TERM—Psychology, Literature,  
Orations.

## \* ELECTIVE STUDIES:

<i>Demosthenes de Corona,</i>	<i>History, Course 1,</i>
<i>German, Lessing,</i>	<i>Practical Astronomy,</i>
<i>French, Course 4,</i>	<i>Chemistry, Course 8,</i>
<i>Anglo-Saxon,</i>	<i>Geology.</i>

II. TERM—Ethics, History of Philosophy,  
Orations.

## \* ELECTIVE STUDIES:

<i>Plato,</i>	<i>History, Course 2,</i>
<i>German, Course 6,</i>	<i>Economics,</i>
<i>French, Course 5,</i>	<i>Chemistry, Course 9,</i>
<i>Roman Law,</i>	<i>Human Anatomy.</i>

III. TERM—Theism, Greek Literature,  
Orations.

## \* ELECTIVE STUDIES:

<i>Greek Testament,</i>	<i>Constitutional Law,</i>
<i>German, Course 7,</i>	<i>History, Course 3,</i>
<i>French, Course 6,</i>	<i>Chemistry, Course 10,</i>
<i>Shakspere,</i>	<i>Materia Medica.</i>

## III. THE SCIENTIFIC COURSE.

*Leading to the Degree of Bachelor of Science.*

## FRESHMAN YEAR.

I. TERM—	{ Geometry,	Lectures on Hygiene,
	{ Algebra,	Lectures on the Essay,
	German,	English Composition,
	Cornelius Nepos,	Elocution.

II. TERM—	{ Algebra,	Lectures on Derivatives,
	{ Trigonometry,	English Composition,
	German,	Elocution,
		Sallust.

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\* Seniors may take any of the electives of the Junior year for corresponding terms



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|--|--|
| III. TERM—Analytical Geometry,<br>French,<br>Ovid, | Chemistry, Course 1,<br>English Composition,<br>Elocution. |
|--|--|

#### SOPHOMORE YEAR.

- |  |   |
|--|---|
| I. TERM—Rhetoric,<br>Chemistry, Course 2,<br><i>Surveying</i> , or<br><i>Horace</i> , or<br><i>German</i> ,        | Linear Perspective,<br>English Composition,<br>Elocution. |
| II. TERM—English Literature,<br>Animal Physiology,<br><i>Advanced Algebra</i> , or<br><i>Chemistry, Course 3</i> , | History of Art,<br>English Composition,<br>Elocution.     |
| III. TERM—Botany,<br>English Composition,  | English Versification,<br>Elocution.                      |

#### ELECTIVES:

- |   |   |
|---|---|
| <i>English Oratory</i> ,<br><i>Elocution</i> ,<br><i>Anthropology</i> , | <i>Higher Analytical Geometry</i> ,<br><i>Civil Engineering</i> ,<br><i>Chemistry, Course 4</i> . |
|---|---|

#### JUNIOR YEAR.

- |   |                         |
|---|-------------------------|
| I. TERM—Mechanics,<br>History of Education, | Orations,<br>Elocution. |
|---|-------------------------|

#### ELECTIVE STUDIES:

- |  |   |
|--|---|
| German, Course 2,<br>French, Course 1,<br>History, Course 6,<br>History, Course 7,<br>Parliamentary Law,<br>Sociology, | Differential Calculus,<br>Surveying,<br>Chemistry, Course 5,<br>Zoölogy,<br>Comparative Anatomy,<br>Microscopy. |
| II. TERM—Physics,<br>Orations,   | Electricity and Magnetism,<br>Elocution.  |

#### ELECTIVE STUDIES:

- |   |   |
|---|---|
| German, Schiller,<br>French, Course 2,<br>Hebrew,<br>English Bible,<br>History, Course 4,<br>Logic, | Advanced Composition,<br>Integral Calculus,<br>Chemistry, Course 6,<br>Animal Histology,<br>Embryology. |
| III. TERM—Astronomy,<br>Orations,   | Geology,<br>Elocution.  |

## ELECTIVE STUDIES:

<i>German, Goethe,</i>	<i>History, Course 5,</i>
<i>French, Course 3,</i>	<i>Physics,</i>
<i>Hebrew,</i>	<i>Chemistry, Course 7,</i>
<i>English Bible,</i>	<i>Plant Histology,</i>
<i>American Civics,</i>	<i>Biology,</i>

And subjects offered in the third term, Sophomore year.

## SENIOR YEAR.

I. TERM—Psychology,	Literature,
Orations.	

## \* ELECTIVE STUDIES:

<i>German, Lessing,</i>	<i>History, Course 1,</i>
<i>French, Course 4,</i>	<i>Practical Astronomy,</i>
<i>Anglo-Saxon,</i>	<i>Geology,</i>
<i>Chemistry, Course 8.</i>	

II. TERM—Ethics,	History of Philosophy,
Orations.	

## \* ELECTIVE STUDIES:

<i>German, Course 6,</i>	<i>Roman Law,</i>
<i>French, Course 5,</i>	<i>History, Course 2,</i>
<i>Economics,</i>	<i>Human Anatomy,</i>
<i>Chemistry, Course 9.</i>	

III. TERM—Theism,	Greek Literature,
Orations.	

## \* ELECTIVE STUDIES:

<i>German, Course 7,</i>	<i>Constitutional Law,</i>
<i>French, Course 6,</i>	<i>History, Course 3,</i>
<i>Shakspeare,</i>	<i>Materia Medica,</i>
<i>Chemistry, Course 10.</i>	

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\* Seniors may take any of the electives of the Junior year for corresponding terms.

## LECTURES.

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The following Courses of Lectures have been established. They are given immediately after the chapel exercises on each Monday morning.

### SENIOR CLASS.

- I. TERM—Professor Perrine on American Literature.  
Professor Hulley on Biblical Literature.
- II. TERM—The President on Philosophy.
- III. TERM—Professor Hamblin on Greek Literature.

### JUNIOR CLASS.

- I. TERM—The President on the History of Education.
- II. TERM—Professor Owens on Electricity and Magnetism.
- III. TERM—Professor Groff on Geology.

### SOPHOMORE CLASS.

- I. TERM—Professor Bartol on Linear Perspective.
- II. TERM—Professor Martin on the History of Art.
- III. TERM—Professor Perrine on English Versification.

### FRESHMAN CLASS.

- I. TERM—Professor Groff on Hygiene.  
Professor Perrine on the Essay and Oration.
- II. TERM—Professor Bartol on Derivatives.
- III. TERM—Professor Owens on Chemistry.

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### SPECIAL LECTURES.

- 1. A Course of Lectures is given yearly on Sociology, by Heman Lincoln Wayland, D. D.
- 2. A Course of Lectures is given yearly on Social Ethics, by George Dana Boardman, D. D., LL. D.
- 3. A Course of Lectures is given annually on the Elements of Law, by Honorable Harold Murray McClure, A. M.



## DEPARTMENTS OF INSTRUCTION.

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The method of instruction in the College is partly by text-books and partly by lectures, according to the nature of the subject discussed. Each Professor has his individual mode of imparting knowledge, and this, in the result, is advantageous to the learner. In general, the aim is to discuss each subject as far as possible as the subject-matter requires, yet all branches are presented practically, comparatively, and historically, with the view of leading the student to the apprehension of the subject as a whole and in its organic relations, and not to fill the memory with the phraseology of a text-book. The range and character of the instruction can be gathered from the following account of the different departments.

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### I. ELOCUTION AND ORATORY.

#### INSTRUCTOR PHILLIPS.

The aim is to train the student to speak effectively in the pulpit or upon the platform or at the bar. All instruction is based on the principle that impression precedes and determines expression. Each student receives individual attention during the first half of the course, in Elocution, during the latter half, in Oratory. Special attention is given to Debate. Every student is urged to take an active part in the work of the Literary Societies, and credit is given for work done in them.

#### FRESHMEN.

First Term.—Vocal Training. Exercises in breathing and selections for the development of the voice.

Second Term.—Vocal Training, Articulation, and Description. The work in the development of the voice will be continued with exercises in Phonology.

Third Term.—Description and Gesture. Selections in Description will be delivered and Pantomimic Expression begun.

#### SOPHOMORES.

First Term.—Narration and Pantomimic Expression. Selections in Narration will be studied and delivered.

Second Term.—Argumentation and Narration. The principles and delivery of argumentative discourse will be studied.

Third Term.—Argumentation.—Each student will be required to debate at least twice.

#### JUNIORS.

Each member pronounces two orations a term. A prize contest in oratory is held in the third term. During the year there are three public debates, the last of which is a prize debate.

Four general debates in the Literary Society and two briefs may be substituted for the rehearsal of one oration. One leading debate is equivalent to two general debates.

### SENIORS.

The work is optional. A prize is offered for the best oration at Commencement. Eight general debates in the Literary Society, and four briefs shall constitute a term's week. One leading debate is equivalent to two general debates.

**Oratorical Delivery.**—This course includes respiration, cultivation of the voice, pronunciation, and the principles of vocal and gestural expression. Theory is secondary to practice. The student receives daily drill in the different modes of expression.

Text-book: Curry's Vocal Expression. Reference is made to Curry's Imagination and Dramatic Instinct, Curry's Province of Expression, Fénélon's Pulpit Eloquence, Brookings and Ringwalt's Briefs for Debate.

Third term, Sophomore year, five hours a week.

**Extemporaneous Speaking.**—An optional course, also, is offered to the Juniors and Seniors in Parliamentary Law and Extemporaneous Speaking, the aim of which is to familiarize the student with parliamentary usage in theory and practice, and to develop by daily exercises ability in extemporaneous speaking.

Elective to Juniors and Seniors, first term.

### PRIZES.

A prize will be awarded to the young man of the Freshman Class who shall excel in the delivery of an assigned selection in description.

A prize will be awarded to the young man of the Sophomore Class who shall excel in the delivery of an assigned selection in argumentation.

A prize will be awarded to the young woman of the Sophomore Class who shall excel in the delivery of an assigned selection in narration.

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## II. THE ENGLISH LANGUAGE AND LITERATURE.

ENOCH PERRINE, A. M., LITT. D., PROFESSOR.

### I. PREPARATORY WORK.

It is assumed that the student has been thoroughly grounded in the essentials of Grammar; that he has mastered the elements of Rhetoric as presented in Williams's Rhetoric, D. J. Hill's Elements of Rhetoric, or any other work of similar grade; and that he is able to express his thoughts clearly and concisely. Special attention is called to the required reading of English classics—a list is given on page 28—and it is presumed that by reading them the student has become more or less familiar with the leading forms of literary expression—the drama, the novel, the essay, the oration. This reading should not be done as a

pastime, but under competent direction, with the end in view of making a scholarly acquaintance with the authors read; and it is desired that at least the authors suggested should be read, in order to secure uniformity of preparation among the members of the class.

## II. AIM AND METHODS.

The aim is to cultivate the power and habit of (1) accurate thinking, (2) correct and effective composition, (3) intelligent criticism of leading English authors, and to acquire (4) a scientific knowledge of the Origin and Development of the English Language. The methods are largely those known as Laboratory Methods, and in all cases where possible, the method of independent investigation is pursued. The course in Rhetoric is after the constructive rather than the critical method, although both methods are used as occasion demands. The course in English Literature pays less attention to the text-book than to a critical reading, in the class, of the representative work of each author studied. The student is urged to know, rather than to know about, English Literature; and a few authors are carefully studied, rather than many casually read.

## III. COURSES.

**1. Rhetoric.**—Genung's Practical Rhetoric and Genung's Rhetorical Analysis. Analysis of themes, criticisms of plans, and exercises in all the forms of Composition discussed, are required. First term, Sophomore year, five hours a week.

**2. English Literature.**—Emery's Outlines of Notes on English Literature, or Pancoast's Introduction to English Literature, or Painter's Introduction to English Literature. The authors studied and the texts required are Shakspeare's As You Like It, Milton's Comus, Pope's Essay on Criticism, Wordsworth's Poems selected by Rolfe, Selections from Tennyson. Courses in collateral reading will be assigned on application, the aim being to bring the student in contact with those representative authors who illustrate the great movements of their time. Second term, Sophomore year, five hours a week.

**3. English Oratory.**—A careful study of the English Orators is made, as far as time permits, with reference to the peculiarities of each period, and especially to those of the present day. Baker's Specimens of Argumentation, Baker's Primer of Argumentation, and Bradley's Selected Orations will be pursued; and special work will be required in Quintilian's Institutes and Cicero's *De Oratore*. As this is one of the electives of the third term, there is opportunity for an extended course, and readings in the older oratory will be assigned, based upon Sears' History of Oratory. The Library has recently been enriched in this department. Third term, Sophomore year, five hours a week.

**4. Advanced Composition** for those who have taken courses 1 and 2. Text-books, Scott and Denney's Paragraph-Writing, Baker's Principles of Argumentation, Carpenter's Advanced Composition, Lamont's Specimens of Exposition, Brewster's Specimens of Narration, and Baldwin's Specimens of Prose Description. Second term, Junior year, five hours a week.



5. **English Versification.**—On the successive Monday mornings of the third term a course of lectures is given to the Sophomore Class on English Versification as shown in Tennyson, alternating with lectures on the Development of the English Language.

6. **Anglo-Saxon.**—Bright's Anglo-Saxon Reader, and Smith's Old English Grammar. In addition to the literature of the period, special attention will be paid to the connection between Old English and Modern English, reference being had to Emerson's History of the English language. First term, Senior year. Open to those who have taken courses 1 and 2.

7. **Shakspeare.**—A study of *Midsummer Night's Dream*, *Hamlet*, and *Tempest*, to show the development of the poet's mind and art. Constant reference is made to Dowden's *Primer of Shakspeare*, Dowden's *Shakspeare: his Mind and Art*, and the *Variorum* edition of Furness. Various Shakspearean clubs among the students afford opportunity for further practical work. Third term, Senior year, for those who have taken courses 1 and 2.

8. **The Essay and Oration.**—Lectures are given during the first term to the Freshmen on "The Essay," as an especial preparation for the practical work of the course, and supplementary to the work assumed to have been done in the preparatory schools. Pearson's *Freshman Composition* is required.

9. **Essays and Orations.**—The Freshmen are required to present two essays in the first term, and three in the second and third terms, respectively; the Sophomores, three essays each term; the Juniors, two orations, and the Seniors one oration each term. The orations presented at the exercise of the Junior Exhibition and Commencement will be received as two of the required orations. Both Essays and Orations are criticised with the author, if necessary; and in all cases an analysis must be presented.

10. **American Literature.**—During the first term, lectures are given to the Seniors on Bryant, Hawthorne, Longfellow, Lowell, Whittier, and Holmes, as a preparation for those who desire more extended courses in the subject.

#### HONOR COURSES IN ENGLISH.

11. **Chaucer**, his language and thought. A study of Middle English for those who have taken courses 1 and 2, two hours a week, with required thesis on an approved topic.

12. **Milton's Paradise Lost.**—R. C. Browne's *Milton*, and S. A. Brooke's *Life of Milton*, with required theses, for those who have taken courses 1 and 2. Two hours a week.

13. **Skeat's Specimens of English Literature, 1394–1579**, for those who have taken courses 1 and 2. Two hours a week.

14. **Skeat's Piers the Plowman**, for those who have taken courses 1, 2, and 6. Two hours a week.

15. **The Ormulum and The Ancren Riwele**, Sweet's edition, for those who have taken courses 1, 2, and 6. Two hours a week.

## III. THE LATIN LANGUAGE AND LITERATURE.

FRANK ERNEST ROCKWOOD, A. M., PROFESSOR.

LEO GUIDO CHARLES RIEMER, A. M., INSTRUCTOR.

Students in the Classical and in the Latin Philosophical courses have four terms of required work in this department and seven of elective. Honor courses are offered in every term except the first term of the Freshman year.

In the prescribed work, the courses given and the methods of instruction employed are designed to give the student accuracy and facility in translating Latin into correct idiomatic English; the ability to read and appreciate the text in the original; a general acquaintance with the growth and development of the language and literature; a knowledge of the leading facts in Roman history; and some degree of familiarity with the life of the people. In the first term, the text is carefully studied, with special reference to forms and constructions, and considerable time is given to written translations and to oral and written composition. It is believed that in this way the faithful student can become thoroughly grounded in the elements of the language and be prepared to carry on his subsequent reading with pleasure and profit. After the first term, historical and literary topics are given greater prominence. Collateral reading is required in Liddell, Merivale, and Capes. Wilkins' Primer, supplemented by lectures, is made the basis of an outline course on Roman literature.

In the elective course a wide range of reading is offered. While particular lines of study have been marked out, different authors may be substituted in place of those announced in the catalogue. In all cases it is the intention to suit the work to the needs of the class. Provision is made for those who wish by varied reading to gain as large an acquaintance with the literature as possible and also for those who desire to make a specialty of Roman history or philosophy. Students intending to become teachers are aided and directed in their work with that object in view. In the elective courses, less time is devoted to formal recitations than is the case in the prescribed work, while more attention is given to the preparation of papers on assigned topics by members of the class and to lectures and discussions by the instructor. Lectures are given on Roman Antiquities, and these, so far as possible, are illustrated by wall-pictures, plates, and photographs.

Candidates for the degree of Bachelor of Science take Latin during the Freshmen year. For this purpose special courses in Nepos, Sallust, and Ovid have been established. Scientific students are thus given an opportunity to supplement their preparatory Latin, and at the same time to receive the linguistic and literary training afforded by a year's drill in reading Latin authors. This work is under the charge of Instructor Riemer. The books used are Lindsay's Nepos, Herbermann's Sallust, Kelsey's Ovid.

The following courses, though designed more especially for students in the Arts and Philosophical courses, are open as electives to students in the Science Course, who may be qualified to pursue them:

COURSES: 1-4 required; 5-11 elective.

1. **Cicero:** *De Senectute*. Livy: Book I. Review of special topics in Latin Grammar. Oral and written exercises in Prose Composition, based upon the text. Translation at sight and at hearing. First term, Freshman year.



2. **Livy:** Books XXI and XXII. Latin Prose Composition, based upon the text. Roman history: Special chapters in Liddell. Second term, Freshman year.

3. **Velleius Paterculus:** Roman History. **PLINY:** Selections from the Epistles. Translation at sight. Latin Prose Composition, based upon the text. Roman History: Capes' Early Empire. Third term, Freshman year.

4. **Horace:** Selections from the Satires, Odes, and Epistles. Prosody. Lectures on Roman life in the time of Augustus. Historical outlines of the Latin Language and Literature; Wilkins' Primer; Lectures. First term, Sophomore year.

5. **Juvenal:** Selected Satires. Translation at sight. Roman History, Capes and Merivale. Roman Antiquities; Lectures. Third term, Sophomore year.

6. **Plautus and Terence:** Selected Plays. First term; open to Juniors and Seniors; alternating with 9.

7. **Roman Law:** Instruction is given by text-book (Morey's) and by lectures. Students are required to read on assigned topics and to make reports upon the same to the class. Second term; open to Juniors and Seniors; alternating with 10.

8. **Latin Inscriptions:** Egbert's Manual; Allen's Remnants of Early Latin. Third term; open to Juniors and Seniors; alternating with 11.

9. **Tacitus:** *Agricola*; *Germania*; *Annals*. A large amount is read at sight. Special topics in Roman History are assigned for study. First term; open to Junior and Seniors; alternating with 6.

10. **Roman Philosophy:** This course is based upon the philosophical works of Cicero and Seneca. Second term; open to Juniors and Seniors; alternating with 7.

11. **Comparative Philology:** An introductory course; text-book and lectures. Third term; open to Juniors and Seniors; alternating with 8.

#### HONOR COURSES IN LATIN.

12. **Ovid:** *Metamorphoses*; *Tristia*; *Fasti*.

13. **Cicero:** Letters; *De Officiis*; *Brutus*.

14. **Quintilian:** Books I, X, and XII.

15. **Latin Poets:** Crowell's Selections; Merry's Fragments of Roman Poetry.

16. **Tertullian:** *The Apology*.

The following books are used: Rockwood's *Cicero de Senectute* and *Velleius Paterculus*; Westcott's *Livy*; Hopkins' *Agricola* and *Germania* of Tacitus; Platner's *Pliny*; Smith's *Horace*; Lindsay's *Juvenal*; Frieze's *Quintilian*; Crowell's Selections from Latin Poets; Stickney's *Cicero de Natura Deorum*; Allen's *Tacitus' Annals*; Morey's *Roman Law*; Hurst and Whiting's *Seneca*; Allen and Greenough's *Ovid*; Holden's *Cicero de Officiis*; Fowler's *Plautus*; West's *Terence*; Kellogg's *Cicero's Brutus*; Tyler's *Histories of Tacitus*; Peck's *Suetonius*; March's *Tertullian* and *Latin Hymns*. Allen and Greenough's and Harkness' and Bennett's *Latin Grammars*; Harper's *Latin Dictionary*.



## IV. THE GREEK LANGUAGE AND LITERATURE.

THOMAS FRANKLIN HAMBLIN, A. M., PROFESSOR.

There are four terms of required work in Greek in the Classical Course, and five in the Greek Philosophical Course; while Greek may be taken as an elective during the entire Junior and Senior years. Besides the Elective Courses a number of Honor Courses are offered. The Freshman year is devoted to a thorough review of Accidence and Syntax, to the acquisition of a copious vocabulary, and to careful oral and written translations. Practice is also had in turning English into Greek. In the Sophomore year Rhetorical Principles and Political History and Antiquities receive more attention. In the Elective Course a year of poetry alternates with a year of prose. A course of lectures on the Greek Poets is given to the Seniors, with collateral reading on various subjects.

Courses: 1-5 required; 6-12 elective.

1. **Homer:** Odyssey, Books 5-8. Review of verb forms and syntax of verbs. Epic forms and style. Word lists. Metre. First term, Freshman year.

2. **Herodotus:** Book 7. Inflection and syntax of nouns. Ionic dialect. Formation and derivation of words. Reading of portions of standard Greek Histories. Second term, Freshman year.

3. **Lysias:** Six orations. Special topics in Greek syntax. Attic oratory, Translation at sight and hearing. Third term, Freshman year.

4. **Xenophon:** Two Books of the Memorabilia. The life of Socrates. The Socratic method. Reading at sight. First term, Sophomore year. Greek Philosophical Course.

5. **Demosthenes:** Olynthiacs and Philippics. History and Politics of the Macedonian period. Style of Demosthenes. Second term, Sophomore year.

6. **Æschylus and Sophocles:** Prometheus Bound and Œdipus Tyrannus. The drama, theatre, and metres. First term, Juniors and Seniors; alternating with 9.

7. **Euripides:** Medea. Religious influence of the poets. Second term, Juniors and Seniors; alternating with 10.

8. **Aristophanes:** The Frogs. Greek Comedy. The Age of Pericles. Third term, Juniors and Seniors; alternating with 11.

9. **Demosthenes:** *De Corona*. The oratory of Demosthenes from a literary and political point of view. Æschines against Ctesiphon at sight. First term, Juniors and Seniors, alternating with 6.

10. **Plato:** Apology and Protagoras. Philosophy and influence of Socrates. The Sophists. Extracts from the Memorabilia at sight. Second term, Juniors and Seniors; alternating with 7.

11. **New Testament Greek (A):** The Gospel according to Luke. Hellenistic Greek. Second and third terms, Freshman year; one hour a week.

**12. New Testament Greek (B):** The Acts of the Apostles. Burton's Moods and Tenses. Synonyms. Designed as a review for students intending to take a Theological course. Third term, Juniors and Seniors; alternating with 8.

#### HONOR COURSES IN GREEK.

**13. Xenophon:** The Symposium and Œconomicus. Sophomores and Freshmen. Winter terms in alternate years.

**14. Homer and Lucian:** Selections from each in alternate years. Freshmen and Sophomores, third term.

**15. Plato and Æschines:** The Phædo and the oration against Ctesiphon in alternate years. Juniors and Seniors, first term.

**16. Sophocles and the Lyric Poets:** Antigone and selections from the Lyric Poets in alternate years. Juniors and Seniors, second term.

#### TEXT-BOOKS.

Perrin's Odyssey, Books 5-8; Morgan's Select Orations of Lysias; Butler's Herodotus; Sandy's Olynthiacs and Philippics; Winan's Memorabilia; White's Œdipus Tyrannus; Wecklein's Prometheus; Allen's Medea; Green's Frogs; Dyer's Apology and Towle's Protagoras; D'Ooge's De Corona; D'Ooge's Antigone; Richardson's Æschines; Holden's Œconomicus; Winan's Symposium; Wagner's Phædo; Scrivener's Greek Testament; Goodwin's Greek Grammar; Goodwin's Greek Moods and Tenses; Liddell and Scott's Greek Lexicon, Seventh Edition; Oman's History of Greece; Burton's New Testament Moods and Tenses.

### V. THE HEBREW LANGUAGE.

LINCOLN HULLEY, PH. D., PROFESSOR.

It is the aim of this course to give the student a working knowledge of the Hebrew language.

**1. Elements of Hebrew.**—Alphabet, Grammar, Forms, Vocabulary, Translation and Transliteration of Hebrew into English and English into Hebrew, Accents and Signs. Harper's Method and Manual.

Senior and Junior elective. Second term, five hours.

**2. Advanced Hebrew.**—Word Lists, Rapid Reading, Sight Translation, Elements of Advanced Grammar, Syntax, and Principles of Textual Criticism.

Senior and Junior elective. Third term, five hours.

**3. Cognate Languages.**—Instruction is offered in the elements of Arabic, Aramaic, Syriac, Assyrian, Ethiopic, and Talmudic Hebrew.

Open as an honor to Seniors and Juniors.

## VI. MODERN LANGUAGES.

FREEMAN LOOMIS, PH. D., PROFESSOR.

ELYSÉE AVIRAGNET, A. M., INSTRUCTOR IN THE ROMANCE LANGUAGES.

LEO GUIDO CHARLES RIEMER, A. M., INSTRUCTOR IN THE GERMAN AND FRENCH LANGUAGES.

In the Classical Course the study of German begins with the third term of the Sophomore year, and may be continued in a daily recitation through the whole of the Junior and Senior years. In the same course the study of French begins with the first term of the Junior year, and may be continued in a daily recitation to the end of the Senior year. The first term in each study is required, the others are elective. As it is optional with students to take both electives, the schedule permits of thirteen terms of Modern Language study—six in French and seven in German—the recitations in all cases being for one hour five times a week.

Courses of study and text-books used in connection therewith are subject to change, but the following outline indicates the general scope of the work pursued.

## GERMAN.

1. **Elementary Course** (Classical Course only, required).—Whitney's Brief Grammar, with translation of German exercises into English. Review of Grammar, with translation of English exercises into German. Irregular verbs. Memorizing of selected passages. Writing from dictation. Storm's *Sprechübungen*. Translation of one hundred pages of Reader.

2. **Intermediate Prose Course**.—(Elective for all courses.)—Devoted chiefly to the rapid reading of easy prose, with a view of acquiring an enlarged vocabulary and preparatory to the reading of the classics. Hauff's *Das Kalte Herz*. Riehl's *Der Fluch der Schönheit*. Storm's *Immensee*. Heyse's *l'Arrabiata*. Hoffmann's *Historische Erzählungen*. Translation at sight. Balladen und Romanzen. Prose Composition.

3. **Schiller's Works**.—(Elective for all courses.)—Maria Stuart, Wilhelm Tell, Jungfrau von Orleans, Wallenstein. Collateral reading in historical prose. Deutsche Lyrik. Prose Composition.

4. **Goethe's Works**.—(Elective for all courses.)—Egmont, Iphigenie auf Tauris, Tasso. Collateral reading. Scientific German: Helmholz's *Über Goethe's Naturwissenschaftliche Arbeiten*; Cohn's *Über Bakterien*; and other monographs. Prose Composition.

5. **Lessing's Works**.—(Elective for all courses.)—Minna von Barnhelm, Nathan der Weise, Lessing's Prose. Collateral reading. Comedy. Prose Composition.

6. **Modern Authors**.—(Elective for all courses.)—Selections from the works of Fouqué, Körner, Tieck, Heine, Freiligrath, Auerbach, Baumbach, Seidel, Scheffel. The Romantic School. Prose Composition.

7. **Advanced Prose Course**.—(Elective for all courses.)—Designed to give facility in translating difficult prose. Meyer's *Gustav Adolf's Page*. Freytag's *Doktor Luther*. Lessing's *Laocoön*. Freytag's *Technik des Dramas*. History of German Literature. Prose Composition.



## FRENCH.

1. **Elementary Course.**—(Required.)—Whitney's Brief Grammar with translation of French Exercises into English. Review of Grammar, with translation of English Exercises into French. Irregular verbs. Memorizing of selected passages. Writing from dictation. Storm's Dialogues Français. Translation of 150 pages of Reader.

2. **Intermediate Prose Course.**—(Elective for all courses.)—Devoted chiefly to the rapid reading of easy narrative prose and modern dialogue, with a view to acquiring an enlarged vocabulary and preparatory to the reading of the classics. Souvestre: *Un Philosophe sous les Toits*. Alfred de Musset: *Pierre et Camille*. Feuillet: *Le Roman d'un Jeune Homme Pauvre*. Alfred de Vigny: *Le Cachet Rouge*. Translation at sight. Prose Composition.

3. **17th Century.**—(Elective for all courses.)—French Classics, verse and prose. Selections from the works of Corneille, Racine, Molière, Lafontaine, Mme. de Sévigné, Pascal, La Bruyère, La Rochefoucauld, Bossuet, Fénelon. Modern texts descriptive of the period. Prose Composition.

4. **18th Century.**—(Elective for all courses.)—Selections from the works of Voltaire, J. J. Rousseau, d'Alembert, Diderot, Mme. de Staël. Modern texts descriptive of the period. Scientific French. Prose Composition.

5. **19th Century.**—(Elective for all courses.)—Verse and Theater. Selections from the works of Lamartine, Alfred de Musset, Victor Hugo, Coppée, Augier, Dumas, Sardou, Labiche, Legouvé. Collateral reading. *La Lyre Française*. Prose Composition.

6. **19th Century.**—(Elective for all courses.)—Romance and Criticism. Selections from the works of Alfred de Vigny, Alfred de Musset, George Sand, Balzac, Mérimée, Daudet, H. de Bornier, Guy de Maupassant, Zola, Loti, Sainte-Beuve, Stendhal, Taine, Brunetiere, Tissot. History of French Literature. Prose Composition.

## SPECIAL COURSES FOR FRESHMEN.

## I. COURSES IN GERMAN.

## INSTRUCTOR RIEMER.

Since the grammar is studied as a means to an end, the real object of study is the language, and the aim is the development of a sensitive *feeling*. The pupil learns the similarities between the German and other languages, and is taught that the sentence, not the word, is the real unit of language.

A study of the fundamental facts of grammar accompanied by prose composition, and exercises in reading, memorizing, and repetition of connected discourse, comprises the work of the first term.

During the second term the work consists of the translation of easy prose and poetry, composition and conversation on the texts, and the memorizing of poetry.

## II. COURSES IN FRENCH.

INSTRUCTOR AVIRAGNET.

French may be pursued throughout the year as an extra study by students in any of the courses. The language is taught by the comparative method, affinities between the French language and the English, Latin, and Greek languages being constantly pointed out.

French Syntax is taught by oral examples and illustrations from readings. The grammar is taught from the language, and not the language from the grammar. Dictation exercises are given from "Whitney's Practical French."

As far as practicable, French is only spoken in the class-room. Extracts are read from the best French literature. Conversations are held in French on the readings, stories are related, and compositions prepared in French by the pupil.

The aim is to teach the language so that it can be spoken correctly.

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VII. MATHEMATICS.

WILLIAM CYRUS BARTOL, PH. D., PROFESSOR.

ALBERT BURNS STEWART, A. M., INSTRUCTOR.

WILLIAM ALBERT KAUFFMAN, A. B., ASSISTANT IN ASTRONOMY.

Courses 1-6 constitute a group in Pure Mathematics, designed as a preparation to the required courses in Mechanics, Physics, and Astronomy, and as a sufficient basis for the electives in Higher Mathematics. They are required of every candidate for a degree.

Courses 7-10 constitute a group in Higher Mathematics intended for those who wish to make mathematics a principal subject of study. Courses 7-10 are open to all who have completed courses 1-6.

Courses 11-14 are in Applied Mathematics; course 11 is required of all candidates for a degree; course 12 is open to all who have completed courses 1-6. Courses 13 and 14 are elective.

1. **Solid Geometry.**—The course includes the geometry of solids with plane surfaces, the cone, the cylinder, the sphere, and the spherical triangle. Seven weeks are given to the subject. Freshman year, first term, five hours.

2. **College Algebra.**—The topics are indeterminate equations, ratio, and proportion, variation, progression, the binominal theorem, convergency of series, undetermined coefficients, logarithms, permutations, and combinations. Nine weeks are given to the subject. Freshman year, first and second terms, five hours.

3. **Derivatives.**—The course is intended to give those who do not wish to specialize in mathematics an idea of the methods of the calculus. It is supplementary to the course in College Algebra, and affords concise proofs of its most important theorems. Freshman year, second term, one hour.



4. **Trigonometry.**—The course includes Plane Trigonometry, with application to problems in mensuration and surveying, and Spherical Trigonometry, with some applications to problems in astronomy. Twelve weeks are given to the subject. Freshman year, second and third terms, five hours.

5. **Analytical Geometry.**—The student is taken through the elementary properties of the right line, the circle, and the conic sections. The course is intended to give a clear conception of the methods of Cartesian Analysis rather than an extensive knowledge of its results. Nine weeks are given to the subject. Freshman year, third term, five hours.

6. **Linear Perspective.**—A course of twelve lectures, designed to familiarize the student with the principles of perspective, and to give him an insight into their manifold applications. Sophomore year, first term, one hour.

7. **Advanced Algebra.**—The course includes infinite series, the theory of equations, and the theory of determinants. Second term, five hours.

8. **Advanced Analytical Geometry.**—The course includes the geometry of three dimensions, surfaces of revolution, and higher plane curves. Third term, five hours.

9. **Differential Calculus.**—The course includes the development of functions into series, evolution of undetermined forms, determination of maxima and minima, and application to the theory of curves. First term, five hours.

10. **Integral Calculus.**—The course covers methods of integration by parts, by substitution, by successive reductions, and by series. Applications to problems of geometry and mechanics are made. Second term, five hours.

11. **Astronomy.**—The aim is to treat Astronomy not merely as an application of mathematics, but as a science, which forms an essential part of a finished education. The subject is taught by text-book, with illustrations in the observatory and lectures. There is free use by the students of the ten-inch equatorial telescope. Junior year, third term, five hours.

12. **Practical Astronomy.**—Observations are made for time and to determine the errors of the transit instrument. The use of the micrometer is taught, and the value of one revolution of its screw is determined experimentally. Observations are made for azimuth, and for latitude and longitude. First term, five hours.

13. **Surveying.**—In compass and transit surveying a careful study of the necessary instruments is made. The student is taught their adjustments and the best methods of reducing their errors. He is required to do considerable practice work in the field. Such tables and methods are furnished him as will enable him to undertake the retracing of old lines. The system practiced by the government in the survey of public lands is fully set forth. Directions are given for running contours and sketching typography. First term, five hours.—INSTRUCTOR STEWART.

14. **City Surveying and Civil Engineering.**—Two sites are located and plotted; permanent reference points and bench-marks are established; grades and sewers are determined, and property lines staked out. Instruction is given in the theory of railroad curves, switches, and turn-outs. A corps is organized,



which makes a preliminary survey and locates a cross-country railroad. For this the grade and ditch stakes are set and the curves determined, specifications are drawn up, and estimates made of the line surveyed. Third term, five hours.—INSTRUCTOR STEWART.

The following books are used: Bartol's Geometry, Wells' University Algebra, Wentworth's Plane and Spherical Trigonometry, Nichol's Analytical Geometry, Hardy's Calculus, Carhart's Plane Surveying, Olmsted's College Astronomy, Greene's Practical Astronomy.

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## VIII. PHYSICS.

WILLIAM GUNDY OWENS, A. M., PROFESSOR.

The Department of Physics offers six courses, three of which are required of all candidates for a degree; one is elective, and two are honor courses.

1. **Mechanics of Solids, Liquids, and Gases.**—This course consists of lectures, demonstrations, and recitations, appropriately illustrated.

Required. Junior year, first term, five hours.

2. **Mechanics of Solids, Liquids, and Gases.**—Experimental course.

Honor. Junior and Senior. Five hours of Laboratory work.

3. **Sound, Light, and Heat.**—Study of text-book, lectures, and experiments.

Required. Junior year, second term, five hours.

4. **Sound, Light, and Heat.**—Experimental course.

Honor. Junior and Senior. Five hours of Laboratory work.

5. **Magnetism and Electricity.**—Lectures with experiments.

Required. Junior year, second term, one hour.

6. **Magnetism and Electricity.**—An experimental course, open as an elective to those who have taken courses 1 and 2. Experiments are made by the students, and, where practicable, absolute measurements are taken.

Elective. Third term, five hours.

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## IX. CHEMISTRY.

WILLIAM GUNDY OWENS, A. M., PROFESSOR.

LOUIS HECKER BURGE, ASSISTANT.

1. **Lectures** are given during the third term of the Freshman year to acquaint the student with the scope and aims of chemical study, and by suitable experiments to explain the value of laboratory work and the methods used.

2. **Descriptive Chemistry** is taught by text-books and lectures. The object of the course is to give the student a general knowledge of the most common

elements—their sources, use, compounds, and behavior towards other elements and compounds, and to drill the student in writing formulæ and solving chemical equations. To accomplish this, each student will be expected to spend at least five hours each week in the Laboratory, studying the characteristics and reactions of the elements and their compounds, and performing the more simple experiments outlined in the text and lectures. Notes will be kept by each student, describing the experiment and giving the equation which represents the reactions that take place. The Professor will, from time to time, examine the note-books, and make such suggestions as he thinks helpful. First term.

**3. Analytical Chemistry** is open to those only who have completed Descriptive Chemistry. In this course, students examine a number of known solid and liquid substances, noting their reactions. They are then given unknown substances, several in one mixture, which they are required to determine. The course is completed when fifty unknown mixtures have been determined and correctly reported. Second term.

**4. Quantitative Analysis** comprises those determinations which will be most useful to the general student. It also offers to the specialist an opportunity to become acquainted with the methods of separation and manipulation. It is open to those who have taken General and Analytical Chemistry. Third term.

**5. Organic Chemistry.**—The simplest of the Paraffin and Benzene series and their derivatives are studied. The theoretical basis is kept constantly in view, while the preparation of the simplest and most characteristic compounds prevent the work from becoming simply an act of memory. First term.

**6. Agricultural Chemistry.**—In this course the laws which underlie the Science of Agriculture are considered and illustrated. Second term.

**7. Ultimate Organic Analysis and Analysis of Fertilizers.**—Such determinations are made as will best illustrate the methods used and give the student practice in the manipulation of apparatus. Third term.

**8. Water and Urine Analysis.**—Water analysis includes the study of potable and mineral waters, with the quantitative determination of their ingredients.

Urine analysis (second-half term) includes the determination of foreign substances and what their presence indicates. First term.

**9. Toxicology and Medical Chemistry** consists of the detection of the most common poisons, the symptoms of poisoning, etc., with practice in the detection of impurities in foods and drugs. Second term.

**10. Gas Analysis** includes the determination of the gases in air, illuminating gas, generator gas, and others. Third term.

Courses 5, 6, and 7 are given on alternate years with courses 8, 9, and 10.

#### HONOR COURSES.

**11. Chemical Philosophy.** Second term.

**12. Modern Theories of Chemistry.** Meyer. Third term.

THE CHEMICAL AND PHYSICAL SOCIETY holds meetings bi-weekly to discuss questions in Chemistry and Physics.

## X. ORGANIC SCIENCE.

GEORGE G. GROFF, M. D., LL.D., PROFESSOR.

NELSON FITHIAN DAVIS, SC. M., INSTRUCTOR.

In this department it is the constant aim to teach students how to interpret nature. The student is guided in his investigations by lectures and laboratory manuals.

The Biological Laboratory is equipped with apparatus for carrying on the work in the Organic Sciences. A large room has been fitted up especially for Microscopic work with sufficient equipment for fifteen students. Each student has a separate desk, containing a microscope and the necessary reagents. The Laboratory is also supplied with collecting and bacteriological apparatus, with books of reference, and other appliances necessary for carrying on Biological research.

Those taking Microscopy have the use of microtomes, incubators, reagents, etc. New apparatus will be added as occasion demands.

The work in Zoölogy is illustrated by marine and fresh-water forms, skeletons, and mounted specimens.

In Comparative Anatomy and Osteology the work is illustrated by skeletons representing different types of vertebrates.

Physiology is illustrated with human skeletons, a life-sized French manikin, prepared tissues, and numerous charts.

Material for Human Anatomy is received from the State Anatomical Board in Philadelphia, and each student has the opportunity to dissect the whole body.

The work in Materia Medica is illustrated by specimens of crude drugs.

The student in Histology and Embryology has a good supply of paraffin and collodion blocks. The work is illustrated with microscopic slides, alcoholic material, and French wax models.

Each student is expected to provide himself with dissecting instruments. A charge is made for materials used and apparatus broken.

Fourteen courses in all are offered. In courses 3, 4, 5, 6, 7, 8, 10, 12, 13, and 14 the student should reserve on his program about ten hours each week for laboratory exercises.

Medical students who desire to complete their professional studies in three years should take courses 1 to 11.

**1. Hygiene.**—A course of six lectures on the Elements of Personal Hygiene. First term, Freshman year. Required.

**2. Animal Physiology.**—The principles of Human and Comparative Physiology taught by lectures and illustrated by a life-size French manikin, skeletons, and charts. Second term, Sophomore year, five hours. Required.

**3. Microscopy.**—In this course the students are instructed in the Modern Methods in Histology and Embryology. Laboratory work consists of paraffin and collodion imbedding, special methods in fixing, injecting, staining, cutting, and in vegetable tissues. First term, Junior year. Elective.



4. **Normal Histology and Embryology.**—Text-book recitations, lectures, and laboratory work. Prerequisite: Courses 2, 3, 7, and 8. Second term, Junior year. Elective.

5. **Human Osteology and Comparative Anatomy.**—Text-book recitations, lectures, and laboratory work. Prerequisite: Courses 2, 4, 7, and 8. First term, Junior year. Elective.

6. **Human Anatomy.**—Recitations and dissections. Prerequisite: Courses 2, 4, 5, 7, and 8. Second term, Senior year. Elective.

7. **Biology and Plant Histology.**—Recitations, lectures, and laboratory work. Prerequisite: Courses 2 and 10. Third term, Junior year. Elective.

8. **Zoology.**—Recitations, lectures, and laboratory work. Prerequisite: Courses 2 and 7. First term, Junior year. Elective.

9. **Sanitary Science.**—A course of ten lectures on the Elements of Sanitary Science. Second term, Sophomore year.

10. **Botany.**—Recitations, lectures, and laboratory work. Third term, Sophomore year. Required.

11. **Dynamical Geology.**—A course of twelve lectures. Third term, Junior year. One hour. Required.

12. **Mineralogy and Geology.**—Recitations, lectures, and laboratory work. The first part of the term will be devoted to Mineralogy, the second to Geology. First term, Senior year. Elective.

13. **Materia Medica.**—A course in this subject is offered to students preparing for the study of medicine. Third term, Senior year. Elective.

In each of the above subjects one or more terms of honor work may be pursued by making arrangements with the Professor in charge of the Department.

THE NATURAL HISTORY SOCIETY has been formed to encourage original work in the Organic Sciences. It is open to all professors and students of the college, and holds meetings weekly.

## XI. ECONOMICS AND SOCIAL SCIENCE.

1. **Economics** is considered as the science of exchanges, and is followed into its practical applications, in manufacturing, banking, national credit, and international commerce, with illustrations from well-known facts and current events. It is insisted that any stable system of economy must find its foundation in ethical principles. First studied as an abstract science, it is then taken in connection with Sociology as modified by the circumstances under which its principles are applied.

There will be held daily recitations from Ely's Outlines of Economics and Marshall's Principles of Economics, supplemented by lectures, and by debates on the part of the class, and ample opportunity is afforded for original investigation, the Library being especially rich in this department.—PROFESSOR PERRINE.

2. **American Constitutional Law** is offered as an elective to Juniors and Seniors in alternate years, third term. The work consists not so much in a study of the Constitution itself as in a study of the law that has grown out of the Constitution during a century of use. Cooley's *Elements of Constitutional Law* is made the basis of class-room work, while special topics are assigned for individual study and subsequent discussion in the class-room. Reference is made to Hare's *American Constitutional Law*, Baker's *Annotated Constitution of the United States*, Pomeroy's *Constitutional Law*, Cooley's *Constitutional Limitations*, and *Constitutional History* as seen in *American Law*.—PROFESSOR HAMBLIN.

3. **American Civics** is offered, as an elective, to Juniors and Seniors in the third term, alternating with Constitutional Law. The aim is to study the practical workings of the State and National governments in their various departments. Bryce's *American Commonwealth*, Vol. I, is used as a text-book. Special topics are assigned for individual study and report to the class.—PROFESSOR HAMBLIN.

4. **Roman Law** may be taken as an elective in the second term of the Senior year. The subject is treated historically. Morey's *Roman Law* forms the basis of the work. The text-book is supplemented by lectures and collateral reading.—PROFESSOR ROCKWOOD.

5. **Sociology**.—An honor course in Sociology is offered by Dr. Wayland. This will consist (1) of a report of the lectures of Dr. Wayland; (2) of the reading of some work on Sociology with analysis of its subject-matter; (3) of a thesis of not less than a thousand words based on field work done by the student.

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## XII. MEDIÆVAL AND MODERN HISTORY.

LINCOLN HULLEY, PH. D., PROFESSOR.

A knowledge of ancient history is required for admission, and special courses in the histories of ancient Greece and Rome are given in connection with the study of the classical literatures. The Mediæval and Modern History courses have been planned to provide the general student with the essential data of human progress; and the special student with the fullest equipment required for advanced work in the best Graduate Schools.

To accomplish this the best text-books, large library facilities, and the most successful methods of college history teaching are used. The student is trained to grasp the leading facts of history, to trace the causal relations of events, to exercise the historical imagination, and to compare and criticize authors. To secure vivid impressions the student makes maps, chronological lists, and black-board analyses; to develop expression essays, reports, and discussions are required; to give reality to the study frequent attention is called to history in the making—local institutions, characters, geography, and events. The work is further supplemented by lectures on methods and sources of historical research, and the relation of history to auxiliary subjects. Six terms of honor work have been arranged for students who desire additional opportunities. Courses 2 and 4, 3 and 5, 6 and 7 alternate annually.



The following courses are offered :

**1. Mediæval Europe.** (1) Subjects:—The Germanic Invasions, Roman Christianity, Rise of Mohammedanism, German Ideas of Law, The Age of Charlemagne, The Foundation of Mediæval Europe, The Feudal System, The Rise of the Papacy, its Degradation and Restoration, the Struggle between the Empire and the Papacy, the Domination of the Papacy, Society and Intellectual Life of the Middle Ages. (2) Texts:—The class will use Thatcher and Schwill's Europe in the Middle Ages, and will also read extensively in Emerton's Introduction to the Middle Ages, Emerton's Mediæval Europe, Milman's Latin Christianity, Bryce's Holy Roman Empire, Duruy's Middle Ages, and in Neander, Kurtz, Schaff, Church, Adams, Stille, Oman, Guizot, and others.

Senior Elective. First term. Five hours.

**2. Modern Europe, A. D. 1350–A. D. 1648.** Subjects:—The Decline of Feudalism, The Revival of Learning, The Rise of Modern Institutions and States, The Protestant Reformation, The Thirty Years' War, The Counter Reformation and the Catholic Opposition in the Inquisition, Jesuit Order, and Council of Trent. The class will use the texts of Seebohm and Gardner in the Epochs series.

Senior and Junior Elective. Second term. Five hours.

**3. Modern Europe, A. D. 1650–A. D. 1870.** Subjects:—The Age of Louis, The Dutch Republic, Peter the Great, The Rise of Prussia, The Decline of Austria, The French Revolution, The Unification of Italy, and the New German Empire. The class will use the texts of Longman and Gardner.

Senior and Junior Elective. Third term. Five hours.

**4. History of England.** Subjects:—Invasions and Early Settlements, Saxon Civilization, the Danish Invasion, The Norman Conquest, and The Political, Religious, Social, Industrial, and Literary Developments down to the present time. The classes will use Gardner's History of England as a text-book, and will use for reference the Special Histories of Gardner, Hale, Creighton, Morris, Freeman, Seebohm, and McCarthy, and the General Histories of Green and Montgomery.

Senior and Junior Elective. Second term. Five hours.

**5. Constitutional History of England.** The aim of this course is to trace the development of English Constitutional Law. Subjects:—Saxon Origins, The Witenagemot, Norman Legislation, Parliamentary Organization, Constitution of Clarendon, Magna Charter, Struggle for Charters, Rise of the Commons, The Tudor Monarchy, Strife between King and Parliament, the Puritan Revolution, Supremacy of the House of Commons. The class will use Taylor's text.

Senior and Junior Elective. Third term. Five hours.

(Beginning with 1898, Course 5 will be replaced with Blackstone's Commentaries on the Laws of England.)

**6. American Colonial History.** Subjects:—Discovery—Settlement—Expansion—Independence. Colonial charters, conventions, government, and social conditions; Spanish, French, and English communities; Conquest of Mexico and Peru; The Making of New England; Relations to the Old World; Causes, Progress, and Results of the Revolutionary War. Special attention will be given to contemporaneous history of Europe during this period.

Senior and Junior Elective. First term. Five hours.



**7. Constitutional History of the United States.** Subjects:—Formation, Analysis, and Interpretation of the Constitution. Its interpretation as expressed in the following subjects: Hamilton's Bank; Assumption of Debts; Alien and Sedition Laws; Kentucky and Virginia Resolutions; Louisiana Purchase; Embargo and Non-Intercourse; Burr's Treason; War of 1812; Hartford Convention; Missouri Compromise; Tariff Legislation; Indian Affairs; Jackson's Bank Veto; Nullification; Currency Measures; Annexation of Texas; Slavery in the Territories; War of Secession; Reconstruction.

Texts:—Von Holst, Hildreth, Schouler, McMaster, Fiske, Hart, Wilson, Johnston, Bryce, American Statesman Series, Annals of Congress, Life and Works of Washington, Hamilton, Jefferson, Adams, Clay, Webster, Calhoun, Seward, etc.

Senior and Junior Elective. Fall term. Five hours.

**8. Parliamentary Law and Common Law.** The aim of this course is: (1) to familiarize the class with parliamentary usage in theory and practice; (2) to acquire the leading principles of Common and Constitutional Law; (3) to pursue a definite course of historical reading in relation to the work.

Senior and Junior Elective. Fall term. Five hours.

#### HONOR COURSES IN HISTORY.

**9. Political Philosophy.** Wilson's "The State."

**10. Philosophy of History.** Droysen's Outlines.

**11. Political Institutions of the United States.** Bryce's "Commonwealth."

**12. Diplomatic History of the United States.** Snow.

**13. Special Epochs of History.**

**14. Elementary Studies in Law.** Robinson's Elements.

### XIII. BIBLICAL LITERATURE.

LINCOLN HULLEY, PH. D., PROFESSOR.

The aim of this department is to develop (1) correct methods of Bible study, and (2) an appreciation of the forms and subject-matter of Biblical Literature. The language will be studied inductively, by the aid of Harper's "Introductory Methods and Manual," and Grammar. The English courses will be supplemented by a series of lectures extending throughout the year.

The topics to be treated are as follows:

**Lectures.**—The Bible as a Classic; the Bible as a Library; the Bible in its Formation; its influence on early civilization; the civilization imbedded in it; its essential ideas and their development; its institutions; its literary forms; the names, order, number, date, purpose, plan, style, contents, teaching, and history of selected books; methods of Bible study; historical methods of interpretation; spirit, motive, present condition, and results of Bible study; the distinctive purpose of the Bible; its Divine Origin and Mission; and the Bible as central and vital in English History, Literature and Civilization.

**1. Prophecy.** Subjects:—The nature of prophecy; the contents of prophecy; events, stories, sermons, predictions; the historical situations in the various periods of prophecy; the underlying principles and essentially divine elements of prophecy; the personality of Amos, Hosea, Isaiah, and Jeremiah; the prophets as statesmen, reformers, theologians, ethical teachers, and preachers; prophetic historiography and literature. The aim of this course is to give a life-like realism to the prophets' personality, age, and message. Senior and Junior elective.

**2. Psalmody and Wisdom Literature.**—This study includes: The periods and development of Psalmody; the growth of the Psalter; the special religious revivals producing it; its divisions, authors, superscriptions, versions, contents; and the order of the Psalms; the historical occasion of their composition; their various literary forms; their editorial, musical, and liturgical elements, and the following group: The Davidic, Korahite, Asaphic, Maccabæan, Pilgrim, Hallelujah, Coronation, Elegiac, Imprecatory, Alphabetic; and the Psalms of the Exile, the Restoration, and the Later Temple.

All of the Wisdom books will be carefully studied. Senior and Junior elective.

**3. The Founding of the Church.**—The texts will be the Acts of the Apostles. The subjects will be the Church's inception, formal organization, initial activity, internal life, missionary enterprise, and the establishment of churches. Senior and Junior elective.

**4. The Pauline Epistles.**—The historical origin, plan, purpose, materials, and characteristics of each; their chronological order; the development and progress of their teachings; and the life, experiences, and views of their author will be studied. Senior and Junior elective.

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## XIV. LOGIC AND ANTHROPOLOGY.

WILLIAM EMMETT MARTIN, A. M., PROFESSOR.

**1. Elementary Logic**, optional to Juniors, is offered in the second term. This course is designed to utilize (1) the valuable discipline inherent in the study of the science of thought; (2) the practical application of its principles in the analysis of arguments and the conduct of the search for truth; (3) the knowledge of the historical development of the science in the hands of its great masters, and (4) its valuable aid as preparatory to the study of Philosophy and Ethics.

The Manual of Professor Minto will be supplemented by readings in the standard authors, with constant praxis in the detection of fallacious arguments.

**2. Logical Theories**, an advanced course in the history and criticism of Logic, ancient and modern, is offered as an honor study, in the third term of the Junior year, to such students as shall have taken course 1.

3. **Descriptive Anthropology** is given to the Sophomore class during the third term. It is designed to prepare the student for the appreciative study of **Ethnology and Languages**, of **Archæology and History**. Tylor's text-book serves as the basis of study, with readings and discussions on the chief authorities and current publications.

4. An honor course in **Anthropology** with special reference to the origin and development of Art, Science, and Religion, is offered to Juniors and Seniors in the first term.

5. **Sociology**.—A course in Sociology, elective to Juniors and Seniors, is given in the fall term. The aim is to furnish such expositions of social relations and theories as will serve the general purposes of educated citizens.

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## XV. MENTAL AND MORAL PHILOSOPHY.

### THE PRESIDENT.

The studies in this department embrace Psychology, Philosophy, Education, Ethics, and Theism. The method of instruction is by text-book recitation, expository lectures, class discussions, and collateral reading. Written examinations and theses on assigned subjects test and deepen the student's knowledge. The gift recently, by friends, of a thousand dollars' worth of books in this department enables the students to pursue extensive courses of collateral reading. In this way the monographic treatment of text-book study is broadened, and the student is trained to become an investigator.

Besides the following courses offered by the Professor in charge, courses are also offered by the Professor of Greek in the philosophy and religious ideas of the Greeks, as shown in Plato's *Apology*, and in Greek Philosophy, in connection with the study of the *Phædo*; and by the Professor of Latin, in the Stoic, Epicurean, and Academic systems of Philosophy, in connection with the study of *Cicero De Natura Deorum*, and in Ancient Morals, in connection with the study of Seneca.



## SCHEDULE FOR 1897-'98.

1. **Psychology.** Wundt.  
Reading in Ladd's Physiological Psychology, James' Psychology.  
Porter's Human Intellect and other authorities.  
Seniors. First term. Five hours.
2. **Psychology.** James. Honor course.  
Seniors. First term.
3. **History of Education.** Lectures.  
Juniors. First term. One hour.
4. **Ethics.** Robinson. Lectures and Readings.  
Seniors. Second term. Four hours.
5. **History of Philosophy.**  
Lectures, Theses, and Readings.  
Seniors. Second term. Two hours.
6. **Philosophy of Education.** Rosenkranz. Honor course.  
Seniors. Second term.
7. **Lotze's Metaphysic.** Ladd. Honor course.  
Seniors. Second term.
8. **Philosophy of Religion.** Diman's Theistic Argument, and Lectures.  
Seniors. Third term. Five hours.
9. **Modern Philosophy.** Weber. Honor course.  
Seniors. Third term.
10. **Grundzüge der Psychologie.** Lotze. Honor course.  
Seniors. Third term.

## LIBRARIES AND APPARATUS.

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### THE LIBRARIES AND READING-ROOM.

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*Librarian:* PROFESSOR WILLIAM E. MARTIN, A. M.

*Assistant:* THOMAS J. MORRIS.

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**The College Library.**—The general library contains about eighteen thousand volumes, besides several thousand pamphlets. The reading-room is connected with the library, and offers facilities for reading, studying, and writing. During term-time both are open forenoon, afternoon, and evening of each day, Sundays and holidays excepted, and both are maintained at the expense of the University, without extra charge to students. Students of all departments have free access to the shelves, and may draw two books at one time and retain them for two weeks, with the privilege of one renewal, if desired.

The library has entirely outgrown its former accommodations, but the completion of the new Laboratory building has left vacant the large adjoining room, which is now used as the young ladies' library and study hall. It has recently been supplied with appropriate furniture, by the kindness of several friends of the University.

For greater convenience of students and instructors, collections of special technical books are also kept in the Laboratories of the Physical and the Organic Sciences, and in the Astronomical Observatory.

The library is regarded as a working laboratory for all departments of instruction, students being constantly cited to it in class-room work. In this way, while answering the purpose of general culture, it supplements in great measure the monographic treatment of text-book study, and the student is trained under competent guidance to become an investigator. The resulting practical acquaintance with books and bibliography proves a valuable part of liberal education.

By aid of the Card Catalogue all the resources of the library on any given subject are at once available.

Valued contributions in books and in money have been made during the year by the following: American Baptist Home Mission Society, American Baptist Missionary Union, American Baptist Publication Society, American Peace Society, Rev. A. F. Anderson, A. M., Prof. E. Aviragnet, Mus. Doc., Mrs. E. W. Baldwin, Samuel Bolton, Jr., M. D., Miss M. E. Brown, Bureau of Ethnology, Hon. J. Donald Cameron, Civil Service Commission, Class of 1896, Commissioner

of Labor, W. J. Coxey, A. M., M. W. Cramer, Esq., H. E. Deats, Esq., Miss Mary Derr, Prin. T. A. Edwards, A. M., W. H. Egle, A. M., Mrs. N. P. Eigelberner, Hon. B. K. Focht, Chaplain Thomas A. Gill, D. D., U. S. N., Calvin Green, Esq., Registrar W. C. Gretzinger, Ph. B., Prof. George G. Groff, M. D., Mrs. W. F. Harpel, President John H. Harris, LL. D., W. Laird Harris, Esq., Wm. T. Harris, LL. D., Hartford Theological Seminary, H. S. Hopper, Esq., Fred. B. Hunt, A. B., Interstate Commerce Commission, T. R. Jones, LL. B., Rev. J. T. Judd, A. M., Kansas Historical Society, W. L. Kurtz, A. B., Mrs. K. B. Larison, A. M., C. C. Law, A. M., Rev. D. P. Leas, A. M., Mrs. J. R. Loomis, C. B. Lowe, M. D., John J. Lytle, Sec'y, Hon. T. M. Mahon, John T. McDonough, Rev. F. G. McKeever, A. M., J. F. Maginnis, Esq., G. Barron Miller, A. M., Charles H. Morse, Esq., *New Jersey Baptist Bulletin*, Prof. W. G. Owens, A. M., Captain J. A. Owens, Parsons Miller and Steward, Pennsylvania State College, Prof. E. Perrine, Litt. D., Prin. G. M. Phillips, Ph. D., Instructor L. Phillips, A. M., J. W. Powell, LL. D., George B. Rea, Esq., Instructor L. G. C. Riemer, A. M., *Rochester Baptist*, Prof. F. E. Rockwood, A. M., Wm. Ruehrwein, Esq., G. A. Schilling, Esq., Rev. W. H. Schuyler, C. H. Sembower, Esq., Alf. S. Sheller, Esq., C. H. Simmerman, Esq., Albert K. Smiley, Esq., Miss Carrie Smith, The Smithsonian Institution, Rev. George M. Spratt, D. D., Anson Phelps Stokes, Esq., E. L. Tustin, Esq., United States Departments of Agriculture, Interior, Patent Office, Public Documents, State, War, and Navy, Geological Survey, National Museum, Washington, D. C.; University of Chicago, Volta Bureau, Volunteer Mission Band, Hon. John Wanamaker, Joseph K. Weaver, M. D., Edward Whympfer, Rev. Wm. V. Wilson, D. D., Wooster University.

The University acknowledges the gift by J. Ackerman Coles, M. D., and Miss E. S. Coles, of Scotch Plains, N. J., of a life-size bronze bust of Julius Cæsar, a copy of the original bronze in the Louvre, Paris. It is mounted upon a pedestal of colored marble, and stands in the Library. The gift is in memory of the father of the donors, the late Abraham Coles, M. D., PH. D., LL. D.

Contributions of books and periodicals are solicited. The librarian will furnish specific information as to our needs to any inquirers, and will acknowledge all gifts.

**The Reading-Room**, in connection with the general library, is maintained at the expense of the University. By purchase or by contribution, its tables are supplied with the current numbers of one hundred publications, including the leading scientific, literary, and philological reviews, and magazines and papers of the day.

On shelves adjoining the tables of the reading-room are placed encyclopedias, dictionaries, maps, gazetteers, indices, and complete sets of the leading reviews and magazines.



## THE MUSEUM.

The College possesses a good collection of illustrative materials in Botany, Mineralogy, Geology, Zoölogy, Materia Medica, and Histology. The specimens are distributed under these classifications and those of Archæology as follows:

Botany.....	1,350
Mineralogy.....	3,000
Geology.....	2,000
Zoölogy.....	4,450
Archæology.....	525
Histology.....	500
Materia Medica.....	300
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Total.....	12,125

Additions to the Museum will always be thankfully received, especially of objects which can be used in laboratory work.

Among these may be mentioned: Zoölogical specimens, especially marine and fresh-water forms of life; insects; skeletons of vertebrate animals, birds and mammals; botanical specimens; crystallized minerals; American and especially Pennsylvania rocks.

Contributions have been received for the Museum during the past year from Le Roy T. Rutler, Prof. Wm. G. Owens, Miss Anna M. Gilchrist, J. W. Hague, Esq., Romeyn H. Rivenburg, Enos C. Baker, Dr. Geo. G. Groff, J. R. L. Diggs, Instructor Nelson F. Davis, Rev. S. C. Meeks, A. G. Jones, Prof. H. N. Conser, J. Sanford Davis, Dr. William Leiser, Dr. E. S. Heiser, and George W. Swayne; The U. S. Geological Survey, The Ripley Co., N. Y. City; Just's Food Co., Syracuse, N. Y.; McKeeson & Robbins, N. Y. City; Fairchild Bros. & Foster, N. Y. City; Henry K. Wampole & Co., Philadelphia; Walker Pharmacal Co., St. Louis, Mo.; The Purdee and Frederick Co., N. Y. City; The Arlington Chemical Co., Yonkers, N. Y.; The New York Pharmacal Association, N. Y. City; The R. T. Booth Co., N. Y. City; J. Elwood Lee Co., Conshohocken, Pa.; The American Therapeutic Co., N. Y. City; The Palisade Manufacturing Co., Yonkers, N. Y.; The Bovine Co., N. Y. City; Shieffelin & Co., N. Y. City; Jefferson Medical College, Philadelphia.

## THE ART COLLECTION.

The beginning has been made of a collection of paintings, casts, engravings, and heliotypes, for the illustration of the Fine Arts. The specimens now in possession of the College number about five hundred, of all kinds, and furnish very considerable aid in illustrating the principles and the history of painting and sculpture.

## LABORATORY AND APPARATUS.

The Chemical and Physical Laboratory affords superior advantages in the study of Chemistry and Physics. Several rooms have been especially fitted up to render them suitable for studying, by means of experiments, the subjects of Sound, Light, Heat, and Electricity. Most of the apparatus necessary for experimenting in these branches is now provided and others will be added as occasion may demand.

The experiment room for Descriptive Chemistry will accommodate ninety-six students in two sections. Each student is provided with a desk, having upon it gas, water, basin with waste, and hood for carrying off foul gases. The most frequently-used chemicals and pieces of apparatus will be supplied to each student, to be retained by him during the term, and kept under lock and key. Other materials will be placed on a table to be used in common by all the students.

In the lecture-room hoods and ventilating flues enable the professor to perform experiments involving the generation of foul odors without vitiating the air of the room. A projecting lantern of the most improved type, made by Newton & Co. (London, Eng.), charts, and specimens are freely used to illustrate the subject under consideration.

In the analytical rooms full opportunity for individual work is afforded, throwing each student upon his own responsibility in order to accomplish the most complete development. Advanced students are encouraged to devise tests and methods of separation other than those mentioned in the text-book, and thus to cultivate the habit of original investigation.

The Physical and Chemical Library has a room on the second floor, and offers facilities for the investigation of subjects in Physics and Chemistry. A number of scientific periodicals are taken, so that the most recent thought and investigation in any line of work is accessible at any time.

The student is expected to pay for materials used and apparatus broken. To meet this a deposit will be made in the beginning of the term with the Registrar, and the balance will be returned at the close of the term.

The Laboratories will be open from 8.30 A. M. to 5 P. M. daily, except Sundays and legal holidays.

## GENERAL COLLEGE ORDERS.

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### ATTENDANCE.

Only under exceptional circumstances will excuses be granted to leave College during term time. In such cases the examination on the studies gone over by the class, during a student's absence, will be specially searching, and a high degree of attainment will be exacted. One who is absent during the entire term must almost necessarily lose his standing in his class. The work of the term begins on the day of opening, and recitations are expected at the first hour appointed for the meeting of the classes. The work continues uninterruptedly, with the exception of holidays marked in the Calendar, until the last day of the term.

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### STANDING.

Each instructor records, in numbers ranging from 0 to 10, the character of the recitation of every student reciting to him, and notes also any delinquency in conduct and attendance. The weekly summary of these markings is recorded in permanent books, and constitutes the basis for determining the standing of the student during his connection with the Institution. Unexcused absences from recitations are counted as zero in making up the weekly averages. *Excused* absences have half the effect in lowering a student's standing as unexcused absences, but a student may, at the option of the professor, do supplementary work, to obviate the effect upon his standing, of excused absences. At the close of each term an average of these marks is made out, and a report of the scholarship, attendance, and conduct of each student is transmitted to his parent or guardian by the President. No student is advanced from one class to another whose average in any study is less than 7.

Conditioned students are not recommended to the Board of Trustees for promotion, and their names in the Annual Catalogue appear with those of the class to which the study in question belongs. Students conditioned on entrance must discharge such conditions within the first year thereafter.

If a student has failed in the studies of a term, he will not be permitted to enter upon the studies of a subsequent term, until he has passed in the subjects in which he failed, unless a postponement of examination to a definite time is granted by the Faculty.

A student who has not completed his rhetorical work in any year, will not be permitted to enter upon any of the work of the succeeding year until such deficiency is made up.



Appointments in the Graduating Class are made according to the aggregate standing of each member during his entire course. But in assigning these parts, the Faculty takes into account the deportment of the student, as well as marks for recitations. The minimum average for an Oration of the First Class is fixed at 9, and for an Oration of the Second Class at 8.

Students who attain an average of 9.4 or more for their entire course are graduated *summa cum laude*; students who attain an average of 9.2 or more are graduated *magna cum laude*; those who attain an average of 9 or more are graduated *cum laude*.

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## EXAMINATIONS.

The dates of the examinations are given in the Calendar. In case a student fails to be present at the examination of his class, for any justifiable reason, his examination will be held at such time as the Faculty may appoint.

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## PUBLIC WORSHIP.

The College duties of each day are opened with religious services in Bucknell Hall, which all the students of the College and Academy are required to attend.

Attendance upon public worship in some church in town on Sunday morning is required. Students must attend the religious services held on Thanksgiving Day.

On the Day of Prayer for Colleges, religious services are held in the forenoon, when a sermon is preached by the President, or by some one at his request. All the students are required to attend. In the afternoon and evening services are held in Bucknell Hall, attendance upon which is urged, though not required.

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## VOLUNTARY SOCIETIES.

**Euepia; Theta Alpha.**—These are the two Literary Societies of the College. They have meetings on Friday evening of each week for Orations, Essays, and Debates. Each Society has a convenient hall, and, by an arrangement of the Faculty, will always have a nearly equal number of members.

**The Zeta Literary Society** is composed of young women admitted to any of the courses in the College, and holds meetings bi-weekly.

**The Young Men's Christian Association** is formed of students from the College. It receives religious periodicals and corresponds with kindred societies. A hall has been appropriated to the Society, and has been suitably furnished for religious meetings.

The Students' Publishing Association is an organization which has in charge the issuing of the *Bucknell Mirror*. This periodical appears monthly during the collegiate year. The same Association publishes the *Commencement News* daily during Commencement week.

Another Association of students publishes, weekly, during the school year, the *Orange and Blue*.

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## GOVERNMENT.

It is assumed that all who enter upon the courses of study in the College do so for the purpose of acquiring an education, not only of the intellect, but also of character. The Laws of the College, enacted by the Board of Trustees, are as few and simple as the proper regulation of a community of young men will permit. These are printed, and a copy is placed in the hands of every student at the beginning of each year. These Laws must be observed, not only in their letter, but in their spirit. The atmosphere of the Institution is not that of arbitrary restraint, but of reasonable conformity to reasonable laws. The College does not wish to place its stamp or bestow its honors upon any one who is not willing to deport himself as a gentleman. Each student is distinctly placed upon his manhood, and if he abuses his privileges, after reasonable caution, he must withdraw from the Institution.

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## PRESIDENT'S OFFICE HOURS.

The President of the University is in his office, in the Main College building, every Tuesday from 9.30 A. M. to 12 noon, to confer with students who may desire advice or assistance. Students are encouraged to communicate frankly with the President upon any subject in which he may be of help to them.

## OFFICE HOURS FOR THE FRESHMAN CLASS.

In addition to the office hours for the students in all departments of the University, special office hours for the members of the Freshman Class are held by Professor Hulley, in the President's office, on each Wednesday from 9.15 to 11.15 A. M.

## OFFICE HOURS FOR THE COLLEGE WOMEN.

The Dean of the College women will receive in her office in the Institute, College women who may desire advice or assistance from her.

## HEALTH AND PHYSICAL CULTURE.

### THE TUSTIN GYMNASIUM.

EMMANUEL W. COBER, WILLIAM E. THOMPSON, DIRECTORS.

**The Tustin Gymnasium** has been provided for the physical training and development of male students. Young women have opportunity for physical training in the Gymnasium of the Institute. These are now provided with the apparatus usually found in well-furnished gymnasiums. The Directors of the Gymnasiums examine every student, taking and recording in a book his physical measurements, and prescribe such exercise as may be required for his physical development. Regular exercise in the Gymnasium is required of all students during the winter term.

**The Athletic Association** of the College has been formed to encourage and regulate athletic sports. Considerable liberty is permitted the Association in carrying out its purpose. The Association is not allowed, however, to arrange match games with other similar bodies without first having secured the consent of the Faculty.

No student who is deficient in rhetorical or class-room work in any term shall be eligible to the office of Manager or Director in any student organization; or to be a member of any exhibiting organization, or of any contesting athletic team, or of any Publishing or Editing Board during any subsequent term until such deficiency is made up.

### THE INFIRMARY.

**An Infirmary** has been fitted up for the better care of the sick.



## AIDS AND HONORS.

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### PRIZES.

The prizes are awarded to the persons who in the judgment of the several committees attain the highest degree of excellence among the respective competitors; but no prize is bestowed unless a high degree of merit has been attained by the person receiving it.

#### THE FRESHMAN DECLAMATION PRIZE.

A prize is awarded to the member of the Freshman Class who shall excel in declamation at the Annual Contest of the Freshman Class.

The prize was awarded in 1897 to Charles Ernest Bunnell.

#### THE PRIZE OF THE CLASS OF '71.

This prize, established by the Class of 1871, is awarded to the student of the Freshman Class who shall prove himself best prepared for College in the two branches, Latin and Mathematics, and who shall have received his preparatory training in Bucknell Academy.

The prize for 1897 was awarded to Edward Bell.

#### THE FRESHMAN ESSAY PRIZE.

An annual prize is given to that member of the Freshman Class who shall on or before the first day of June in each year, present the best essay upon a topic to be selected by the Professor of Rhetoric. The Committee of Award will consist of the Professor of Rhetoric and two others, to be designated by the Faculty.

The topic of the current year is "An Account of Macaulay's Essay on Milton."

The prize for 1897 was awarded to Thomas Johnson Morris.

#### THE SOPHOMORE DECLAMATION PRIZE.

A prize is awarded to the member of the Sophomore Class who shall excel in declamation at the Annual Contest of the Sophomore Class.

The prize for 1897 was awarded to Charles Scull Keen.

#### THE SOPHOMORE ESSAY PRIZE.

A prize is awarded to the member of the Sophomore Class who shall write the best English composition on an assigned subject. The Committee of Award consists of the Professor of Rhetoric and two others chosen by him.

The subject chosen for the year 1897 is "Shakspeare's Attitude Toward the Jews as Seen in 'The Merchant of Venice.'" The compositions are limited to

2,000 words, and must be presented to the Committee on or before the first day of June.

The prize was awarded in 1897 to Charles Paul Meeker.

#### **DECLAMATION PRIZE FOR WOMEN.**

A prize for the best declamation open for competition to the Sophomore and Freshman Classes, was awarded in 1897 to Mary Stephens.

#### **THE REGISTRAR'S PRIZE.**

The Registrar of the University offers a prize to that member of the Junior Class who shall pronounce the best oration at the Junior Exhibition in Oratory.

The Junior oratorical prize was awarded in 1897 to Rutledge Thornton Wiltbank, Jr.

#### **JUNIOR DEBATE PRIZE.**

Prizes will be awarded to the two members of the Junior Class who evince superiority in debate at the Junior prize contest.

The first prize was awarded in 1897 to Andrew Madison Forrester; the second to James Robert Lincoln Diggs.

#### **THE HOLLOPETER PRIZE.**

William C. Hollopeter, M. D., Class of 1874, has established an annual prize for excellence in Chemistry, to be awarded to that student at graduation who shall have done the best work in Chemistry, regard being had both to the amount and quality of the work.

This prize was awarded in 1897 to David Solomon Grim.

#### **THE HERBERT TUSTIN PRIZES.**

In memory of his deceased son, the late Professor F. W. Tustin, Ph. D., of the Class of 1856, paid to the Trustees of the University the sum of five hundred dollars, "as the foundation of the HERBERT TUSTIN PRIZE FUND, the interest of which is to be forever paid annually as two prizes, in the proportion of fifteen dollars for the First Prize, and of ten dollars for the Second Prize, to the two students of the Senior Class who shall have attained the highest and the second highest standing in Psychology and Ethics (under such regulations for the pursuit of these studies as the Faculty of the College shall prescribe from time to time), and whose conduct for the last two years of their course in College shall have been without exception."

The first prize was awarded in 1897 to Merton Roscoe Collins, and the second to Maud Elizabeth Hanna.

#### **THE CHAPLAIN J. J. KANE PRIZE.**

The Rev. James J. Kane, Chaplain in the United States Navy, and a graduate of the Theological Department of this University, of the Class of 1867, has established a Prize which is to be given annually to that member of the graduating class who delivers the best oration on Commencement Day.

The prize was awarded in 1897 to Edward Charles Kunkle.

**THE CHARLES MILLER FELLOWSHIP.**

A fellowship in Chicago University, open only to graduates of Bucknell University, has been founded by Hon. Charles Miller, A. M., of Franklin, Pa.

The Bucknell University Fellow for 1897-8 is Mary Belle Harris, A. M., Class of 1894.

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**SCHOLARSHIPS.****I. THE BUCKNELL SCHOLARSHIPS.**

The William Bucknell Scholarships, twenty in number and of \$1,000 each, were established for the purpose of aiding worthy young men in securing an education which will increase their usefulness in the world. The income of these scholarships is to be paid annually to twenty young men, in accordance with the rules which will be made known upon application to the Committee of Examination, consisting of the President of the University, H. S. Hopper, Esq., and Professor Rockwood.

**II. SCHOLARSHIPS FOR MINISTERS' CHILDREN.**

Scholarships upon the general foundation have been established for the children of ministers of the Gospel, of all denominations, in active service.

**III. THE LIVINGSTON SCHOLARSHIPS.**

Established from a legacy of M. B. Livingston, twenty-two in number, are available for students for the Ministry.

**IV. THE LONGAN SCHOLARSHIP.**

The Longan Scholarship, established from a legacy of O. W. Longan, Esq., is available for a student for the Ministry from Lycoming Co., Pa.

**V. THE EBEN C. JAYNE SCHOLARSHIPS.**

Two scholarships have been established by Eben C. Jayne, Esq., of Philadelphia, for the benefit of young women in the College, the award to depend upon the standing and character of the students receiving them.

**VI. THE GEORGE ALEXANDER BAILEY SCHOLARSHIP.**

A scholarship in memory of George Alexander Bailey, M. D., has been established by his brother, Orville E. B. Bailey.

The Bailey Scholarship was awarded for 1897 to Evarts Clancey Conover.

**VII. ANNUAL SCHOLARSHIPS.**

A number of persons have established annual scholarships for the aid of young men or women attending College. Information concerning ministerial and annual scholarships can be obtained from the President of the University.



## HONOR STUDIES.

In order to promote special scholarship in the several departments of study the following provision has been made:

1. Any student who has obtained an average of 9 in the studies of the previous term may take special work in any department of the College, under the direction of the Professor of that department.

2. Such work must be assigned by the Professor, and the method of study prescribed by him.

3. If the student shall attain an aggregate average of 9 in all the studies of the current term, and pass a satisfactory examination in the voluntary study before a committee appointed by the Faculty, the work shall be credited to him in the Annual Catalogue of the College.

4. Only one such study shall be pursued by any one student during any one term. A student may also take one honor study each in the Christmas and Spring vacations, and two in the Summer vacation.

5. The Professor with whom the student is working shall have the privilege of requiring a partial examination on the work done at any time during the term, and there may be regular recitations at the Professor's option.

6. The amount and quality of this extra work shall be taken into account in awarding honors at graduation.

The following Honor Examinations have been sustained during the year ending June 23, 1897:

**The English Language and Literature:** Merton Roscoe Collins, Vincent Barrett Fisk, Maud Elizabeth Hanna, John Yeoman Sinton, and Nellie Taylor, in *Piers the Plowman*; Merton Roscoe Collins, in the *History of English Literature*; Willard Maine Bunnell, Romeyn Henry Rivenburg, and Harry Chester Fithian, in *Chaucer*; Merton Roscoe Collins, James Robert Lincoln Diggs, Jerome Clark Fetzer, Vincent Barrett Fisk, Harry Chester Fithian, Walter Liddell Hill, Charles Arthur Lindemann, and Paul Emil Weithaase, in *Paradise Lost*; Merton Roscoe Collins and Carl Summerbell, in the *Romantic Movement in English Literature*; Oliver John Decker, in *English Oratory*; John Truman Anderson, Louis Browning Sinnette, and Harry Thomas Sprague, in *Anglo-Saxon*; Merton Roscoe Collins, Frank Hollinshead, and Grace Slifer, in *Shakspeare*.

**The Latin Language and Literature:** Charles Ernest Bunnell, Winfield Scott Holland, Howard Curtis Meserve, Reuben LaMont Rentz, and Grace Sophronia Woodard, in *Cicero de Amicitia*; Oliver John Decker and William Thompson Todd, in *Cicero de Officiis*; Laura Louisa Allen, Floyd George Ballentine, and Bertha Celestine Watkins, in *Cicero de Oratore*; Levi Truckenmiller Fetzer, in *Quintilian*; Grace Slifer, in *Latin Poets*; Floyd George Ballentine, Oliver John Decker, and William Wilson Goodwin, in the *Germania and Agricola of Tacitus*; Herbert Baldwin Moyer, in the *Dialogus de Oratoribus of Tacitus*, *Seneca's Moral Essays*, *Tertullian's Apology*, and *Comparative Philology*.

**The Greek Language and Literature:** Anna Kate Goddard and Rosa Louise Hartley, in the *Apology of Plato*; Anna Kate Goddard and Maud Elizabeth Hanna, in the *Phædo of Plato*; John Truman Anderson, Joseph Hutchinson Cooke, Herbert Elwood Dutton, Anna Kate Goddard, Charles Way Harvey,

Howard Curtis Meserve, Thomas Johnson Morris, Romeyn Henry Rivenburg, Harry Thomas Sprague, Carl Summerbell, and Nellie Taylor, in Greek New Testament; Joseph Hutchinson Cooke, Winfield Scott Holland, and Grace Sophronia Woodard, in the Odyssey; Laura Louisa Allen, Floyd George Ballentine, Edwin Lightner Nesbit, Mary Stephens, and Bertha Celestine Watkins, in Xenophon's Symposium.

**The Hebrew Language:** John Yeoman Sinton.

**Modern Languages:** Lizzie Lillian Foust (two courses), Albert Hutchinson, Charles Arthur Lindemann (two courses), Emelie Louise Pooley, Romeyn Henry Rivenburg (three courses), Mary Hoopes Sharpless, Myra Sprague, George Drayton Strayer, Eugene Constant Switzer, Harry Bornetraeger Wassell, John Herbert Williams, and John McCalmont Wilson, in German; Charles Arthur Lindemann, in French.

**Mathematics and Astronomy:** Ralph Frederick Koons and Louis Browning Sinnette, in Advanced Algebra, in Higher Analytical Geometry, and in Quaternions; James Palm Stober, in Higher Analytical Geometry; Louis Browning Sinnette, in Synthetic Geometry; Robert Ottens Koons and Albert Hutchinson, in Surveying.

**Chemistry and Physics:** Ralph Frederick Koons and Roy Brown Mulkie, in Experimental Mechanics; Morris Cramer Van Gundy, in Agricultural Chemistry; Leroy Tyson Butler and Morris Cramer Van Gundy, in Advanced Analytical Chemistry.

**Organic Science:** Robert Ottens Koons, Herbert Baldwin Moyer, and Grace Slifer, in Systematic Botany; Robert Ottens Koons, in Plant Histology; John Grant Lauderbaugh, in Cryptogamic Botany; Louis Hecker Burge, in Biology; Frank Clark Katherman, in Bacteriology; Nellie Taylor, in Zoölogy; Edward Charles Kunkle, in Mineralogy.

**Economics and Political Science:** Willard Maine Bunnell and Ernest Rowland Myers, in Economics; Levi Truckenmiller Fetzner, Samuel Ward Gilpin, Walter Liddell Hill, and Andrew Albright Leiser, Jr., in Constitutional Law; Willard Maine Bunnell and Ferdinand Fields Nelson, in Political Philosophy; Carl Summerbell, in Sociology.

**Mediæval and Modern History:** James Robert Lincoln Diggs, in American History; Abram Sterling Barner, Charles Wolverton Clement, Merton Roscoe Collins, Jerome Clark Fetzner (two courses), Andrew Madison Forrester, Samuel Ward Gilpin, Edward Charles Kunkle (two courses), Roy Brown Mulkie, Ferdinand Fields Nelson, James Palm Stober, Arthur Anson Smith, and John McCalmont Wilson, in History of Modern Europe.

**Logic and Anthropology:** Grace Amelia Dewolfe, Frank Hollinshead, Ferdinand Fields Nelson, John Yeoman Sinton, Harry Thomas Sprague, Carl Summerbell, Benjamin Franklin Thomas, and Rutledge Thornton Wiltbank, Jr., in Anthropology; James Robert Lincoln Diggs, in Inductive Logic.

**Mental and Moral Philosophy:** Merton Roscoe Collins and David Solomon Grim, in James' Psychology; James Robert Lincoln Diggs, Harry Chester Fithian, Benjamin Franklin Thomas, and Rutledge Thornton Wiltbank, Jr., in



Institutes of Education; David Solomon Grim, in Ladd's Physiological Psychology; Abram Sterling Barner, Edward Percy Gilchrist, Rosa Louise Hartley, Edward Charles Kunkle, and John Yeoman Sinton, in Weber's History of Philosophy; David Solomon Grim and Maud Elizabeth Hanna, in Lotze, *Grundzüge der Psychologie*.

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## EXPENSES.

The Study Rooms are so arranged that two students occupy the same study. The Dormitories are intended to accommodate only one person, so that each student has his own private sleeping-room. These are furnished with new spring bedsteads. The student must supply himself with all other furniture. Students are responsible for damage to their rooms, whether it be done when they are present in the room or absent from it.

The College charges amount to \$88 per annum, for those who room in the College building, and \$75 for those who room in the town. The Scholarships are rated at \$50 per annum.

These charges must be paid in advance at the beginning of each term.

No student is entitled to his place in his class until he has made settlement with the Registrar.

A slight additional charge is made for rooms cared for by the Institution.

If a student occupy a study by himself, the charges for room-rent and private fuel will be doubled. The assignments are for one year, and are made the first Monday morning in June, immediately after the devotional exercises in Bucknell Hall. Students from a distance will save inconvenience by applying to the Registrar for a room before the term opens.

Young men in the Collegiate Department, who so desire, can have furnished rooms, with board, in the East Hall of the Academy; young ladies in the same department have their residence in the Institute. For rates apply to the Registrar.

In the laboratories students pay for chemicals used and for apparatus broken or damaged. In the Chemical Laboratory this will amount to about \$12.00 for Analytical and \$3.25 for General Chemistry, depending upon the care of the student.

A small fee is charged also in each of the elective courses in the department of Organic Science, and in City Surveying, for the use of instruments and for material used.

Before entering upon the experimental courses students must deposit with the Registrar security for materials used.

Graduation fee and Diploma, \$10.00. Degree of Master of Arts and Diploma, \$5.00.

Many students board in clubs at a cost of from \$2.00 to \$2.50 per week. Excellent boarding can be obtained in private families at \$3.00 or \$4.00 per week, or at the table of the Bucknell Academy at \$3.00 per week. Washing is done at 25 cents per week. No boarding is allowed in the College buildings. It will be a matter of economy to bring some articles of furniture, especially bedding and carpets, from home. The dimensions of the study rooms are 12 feet by 12 feet; of the dormitories, 12 feet by 6 feet; of the bedsteads, 75 inches by 30 inches.



# FORTY-SEVENTH ANNUAL COMMENCEMENT.

Wednesday, June 23, 1897.

## HONORS AT GRADUATION.

### *ORATIONS SUMMA CUM LAUDE.*

ANNA KATE GODDARD,  
MAUD ELIZABETH HANNA,  
ROSA LOUISE HARTLEY,

EDWARD CHARLES KUNKLE,  
ROMEYN HENRY RIVENBURG,  
JOHN MCCALMONT WILSON.

### *ORATIONS MAGNA CUM LAUDE.*

WILLARD MAINE BUNNELL,  
MERTON ROSCOE COLLINS,

VINCENT BARRETT FISK,  
DAVID SOLOMON GRIM,

LOUIS BROWNING SINNETTE.

### *ORATIONS CUM LAUDE.*

LEROY TYSON BUTLER,  
EDWARD PERCY GILCHRIST,  
ERNEST ROLAND MYERS,

HARRY THOMAS SPRAGUE,  
CARL SUMMERBELL,  
NELLIE TAYLOR.

### *ORATIONS.*

WILLIAM FREDERIC EICHHOLTZ,  
JEROME CLARK FETZER,  
JOHN MOORE GUNDY,  
FRANK HOLLINSHEAD,  
FERDINAND FIELDS NELSON,

MARY OWENS,  
WILLIAM HAMMOND PARKER,  
WILLIAM HAMILTON RODGERS,  
JOHN YEOMAN SINTON,  
HERBERT CHARLES STANTON,

PALMER LEWIS WILLIAMS.

## DEGREES CONFERRED ON EXAMINATION.

### *MASTER OF ARTS.*

HERVEY HARRIS BOWER, A. B.,  
MARY COTTON, A. B.,

HERBERT FREDERICK HARRIS, A. B.,  
ROBERT BURNS MCCAY, A. B.,

JESSIE JUNE WHEELER, A. B.

*BACHELOR OF ARTS.*

GEORGE FENNER BAKER,  
 ABRAM STERLING BARNER,  
 WILLARD MAINE BUNNELL,  
 VINCENT BARRETT FISK,  
 ANNA KATE GODDARD,  
 DAVID SOLOMON GRIM,  
 MAUD ELIZABETH HANNA,  
 ROSA LOUISE HARTLEY,  
 FRANK HOLLINSHEAD,\*  
 EDWARD CHARLES KUNKLE,

HERBERT BALDWIN MOYER,  
 ERNEST ROLAND MYERS,  
 FERDINAND FIELDS NELSON,  
 ROMEYN HENRY RIVENBURG,  
 WILLIAM HAMILTON RODGERS,  
 LOUIS BROWNING SINNETTE,  
 HERBERT CHARLES STANTON,  
 CARL SUMMERBELL,  
 NELLIE TAYLOR,  
 JOHN MCCALMONT WILSON.

*BACHELOR OF PHILOSOPHY.*

MERTON ROSCOE COLLINS,  
 JEROME CLARK FETZER,  
 EDWARD PERCY GILCHRIST,

WILLIAM WILSON GOODWIN,  
 WILLIAM HAMMOND PARKER,  
 JOHN YEOMAN SINTON,  
 HARRY THOMAS SPRAGUE.

*BACHELOR OF SCIENCE.*

LEROY TYSON BUTLER,  
 WILLIAM FREDERIC EICHHOLTZ,  
 JAMES ALEXIS GUIE,  
 JOHN MOORE GUNDY,

GEORGE ALBERT JENNINGS,  
 ROBERT OTTENS KOONS,  
 JOHN VANDLING LESHER,  
 MARY OWENS,  
 PALMER LEWIS WILLIAMS.

*MASTER OF ARTS IN CURSU.*

JAMES ROWLAND HUGHES, A. B.,      ALONZO CORODYN LATHROP, A. B.,  
 WARREN STANLEY MARTS, A. B.

## HONORARY DEGREES CONFERRED.

*MASTER OF ARTS.*

MARY ELLEN WELLS COBB,

GEORGE NOX MCCAIN.

*DOCTOR OF SCIENCE.*

THOMAS JEFFERSON SMITH, A. M., M. D.

*DOCTOR OF DIVINITY.*

JOHN WEAVER WEDDELL, A. M., B. D.,      WILLIAM VANDOLAH WILSON, A. M.,  
 JOHN SPRATT WRIGHTNOUR, A. M., B. D.

# THE ACADEMY.

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## INSTRUCTORS AND OTHER OFFICERS.

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JOHN HOWARD HARRIS, PH. D., LL. D.,

PRESIDENT OF THE UNIVERSITY.

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THOMAS A. EDWARDS, A. M., PRINCIPAL,

LATIN.

ALBERT BURNS STEWART, A. M.,

MATHEMATICS.

LLEWELLYN PHILLIPS, A. M.,

GREEK AND ENGLISH.

WILLIAM ALBERT KAUFFMAN, A. B.,

SCIENCE.

MISS ELIZA BELL, PH. B.,

HISTORY AND ENGLISH.

MRS. ANNIE M. BLACK,

MATRON.

WILLIAM CHRISTIAN GRETZINGER, PH. B.,

REGISTRAR OF THE UNIVERSITY.



## STUDENTS.

## THE FOURTH FORM.

## CLASSICAL.

NAME.	RESIDENCE.	ROOM.
ALAN CRAIG CUNNINGHAM,	<i>Philadelphia.</i>	No. 5, Main Hall
MILTON JUDSON DAVIS,	<i>Lewisburg.</i>	Home
JOHN SIDNEY HOFFA,	<i>Washingtonville.</i>	No. 10, Main Hall
JOHN WILLIAM MCCrackEN,	<i>Kerrmoor.</i>	No. 7, Main Hall
DAVID ALEXANDER PITTS,	<i>Philadelphia.</i>	No. 12, Main Hall

## SCIENTIFIC.

NAME.	RESIDENCE.	ROOM.
MARK L. ANTHONY,	<i>Mt. Top.</i>	No. 11, Main Hall
HAROLD BARNES,	<i>Bayonne, N. J.</i>	No. 9, East Hall
RAY HARRIS CASE,	<i>Lewisburg.</i>	Mr. E. S. Case
LEE RUSSELL RANCKE,	<i>New Columbia.</i>	Mr. D. Gross

## THE THIRD FORM.

## CLASSICAL.

NAME.	RESIDENCE.	ROOM.
FRANK ELMER AMMON,	<i>Strode's Mills.</i>	No. 5, Main Hall
CLAUDE FLEMING BOWER,	<i>Lewisburg.</i>	Mr. F. E. Bower
JOHN DAVIS,	<i>Nanticoke.</i>	No. 8, Main Hall

NAME.	RESIDENCE.	ROOM.
CYRUS CLIFTON DUNKEL,	<i>Buffalo Roads.</i>	Mr. J. T. Dunkel
MERLE MOE EDWARDS,	<i>Lewisburg.</i>	Principal Edwards
JOHN MORRIS EVANS,	<i>Scranton.</i>	No. 12, Main Hall
FOREST FLOYD GALLAGHER,	<i>Lewisburg.</i>	Rev. J. T. Gallagher
REESE HARVEY HARRIS,	<i>Lewisburg.</i>	President Harris
WILLIAM HUBER HOFFA,	<i>Washingtonville.</i>	No. 10, Main Hall
JOSEPH WILLIAM MCILROY,	<i>Philadelphia.</i>	Mrs. Mary Mendenhall
GEORGE HERBERT STEWART,	<i>Lewisburg.</i>	Professor Stewart
DAVID WILLIAM THOMAS,	<i>Scranton.</i>	No. 7, Main Hall

## SCIENTIFIC.

NAME.	RESIDENCE.	ROOM.
JOHN WEISER BASSLER,	<i>Sunbury.</i>	No. 18, East Hall
SAMUEL LUTHER CLARK,	<i>Glen Campbell.</i>	No. 12, East Hall
ROBERT MCGREGOR DARLINGTON,	<i>Lewisburg.</i>	Mr. R. D. Darlington
WILLIAM DAVIS,	<i>Nanticoke.</i>	No. 8, Main Hall
WILLIAM EVANS,	<i>Freeland.</i>	No. 17, East Hall
HARRY ELMER FRIES,	<i>Lewisburg.</i>	Mrs. Margaret Anderson
PETER SNYDER GASS,	<i>Sunbury.</i>	Home
JOHN SMITH GOODMAN,	<i>Lewisburg.</i>	Mr. G. W. Goodman
JOHN CHARLES GROFF,	<i>Lewisburg.</i>	Professor Groff
WILLIAM MARSHALL GROFF,	<i>Lewisburg.</i>	Professor Groff
HARVEY MANN,	<i>Yeagertown.</i>	No. 19, East Hall
AMOS McCANDLESS REID,	<i>Clarion.</i>	No. 13, East Hall
CHARLES SEIDEL,	<i>Bryn Mawr.</i>	No. 19, East Hall
JOHN DANIEL THOMAS,	<i>Minersville.</i>	No. 4, Main Hall

## THE SECOND FORM.

NAME.	RESIDENCE.	ROOM.
ROGER SAUNDERS EDWARDS,	<i>Lewisburg.</i>	Principal Edwards
RALPH RAYMOND GALLAGHER,	<i>Lewisburg.</i>	Rev. J. T. Gallagher
JOHN ARTHUR HAINES,	<i>Winfield.</i>	Mr. A. Haines
CLYDE MOWERY HEDDENS,	<i>Washingtonville.</i>	No. 11, Main Hall
WILLIAM KIRK HEFFELFINGER,	<i>Shamokin.</i>	No. 18, East Hall
EDWARD TAYLOR HOFFMAN,	<i>Milton.</i>	Home
ISAAC WILLIAM HORTON,	<i>Standing Stone.</i>	No. 22, East Hall
HAROLD PHELPS HUMPHREY,	<i>Elkland.</i>	No. 9, East Hall
WALTER ALBERGER MINTZER,	<i>Philadelphia.</i>	No. 17, East Hall
RAYMOND CHESTER PATCHIN,	<i>Patchinville.</i>	No. 12, East Hall
HAROLD PERRINE,	<i>Lewisburg.</i>	Professor Perrine
RALPH W. E. SAVIDGE,	<i>Sunbury.</i>	Hon. C. R. Savidge
EDWARD JAMES SHORTELL,	<i>Paterson, N. J.</i>	No. 10, West Wing
JOHN LOOMIS TYLER,	<i>Bennington Center, N. Y.</i>	Dr. J. R. Loomis
WESLEY JOHN WALTER,	<i>Lochiel.</i>	Home

## THE FIRST FORM.

NAME.	RESIDENCE.	ROOM.
GEORGE NATHAN FEHR,	<i>Montgomery.</i>	Home
GEORGE BAILEY HARRIS,	<i>Lewisburg.</i>	President Harris
JOHN MCGUFFIE,	<i>Pittston.</i>	Mrs. J. W. Reitmyer
HARRY BARRON MILLER,	<i>Lewisburg.</i>	Mr. G. B. Miller



## STUDENTS PURSUING SELECT STUDIES.

NAME.	RESIDENCE.	ROOM.
RICHARD MCKNIGHT BELL,	<i>Sabbath Rest.</i>	No. 3, Main Hall
JOSEPH SANFORD DAVIS,	<i>Greenwich, N. J.</i>	No. 19, East Wing
CALVIN HAYES ELLIOTT,	<i>Hartleton, Pa.</i>	No. 3, Main Hall
WILLIAM TANNER GRAY,	<i>St. Dennis, Md.</i>	No. 21, East Hall
RAYMOND GREENE,	<i>Lewistown.</i>	No. 15, East Hall
AUGUSTUS NITCHIE HARMON,	<i>Lock Haven.</i>	No. 11, East Hall
WILLIAM ANDREW HAVILAND,	<i>Lock Haven.</i>	No. 11, East Hall
WALTER MORRISON LORENZ,	<i>Roaring Spring.</i>	No. 19, East Hall
WILLIS EDGAR MANEVAL,	<i>Liberty.</i>	Mr. Gottlob Krise
WILLIAM NOGLE MARSH,	<i>Lewisburg.</i>	Mrs. N. C. Marsh
FERDINAND ANDREW METS,	<i>Ashland.</i>	No. 16, East Hall
WILLIAM W. NATTRESS,	<i>Sunbury.</i>	Home
JOHN BLACK PACKER,	<i>Sunbury.</i>	No. 14, East Hall
B. NORRIS RITTENHOUSE,	<i>Washington, D. C.</i>	No. 20, East Hall
THOMAS ANDREW SHERBONDY,	<i>Philadelphia.</i>	No. 6, Main Hall
WILLIAM SCOTT SHIELDS,	<i>Lewisburg.</i>	Mr. Wm. Shields
ELI SLIFER WALLS,	<i>Lewisburg.</i>	Mr. W. C. Walls
LOWERY ARCHER WATERS,	<i>Washington, D. C.</i>	No. 20, East Hall
BENJAMIN WHITMAN,	<i>Lewisburg.</i>	Mr. F. O. Whitman
THOMAS LAMAR WILLIAMS,	<i>Mt. Carmel.</i>	No. 4, Main Hall
WILLIAM EDWARD WOODYEAR,	<i>Baltimore, Md.</i>	No. 21, East Hall

SUMMARY.

The Fourth Form, Classical, . . . . .	5	
“ “ Scientific, . . . . .	4	
		— 9
The Third Form, Classical, . . . . .	12	
“ “ Scientific, . . . . .	14	
		— 26
The Second Form, . . . . .	15	
The First Form, . . . . .	4	
Students Pursuing Select Studies, . . . . .	21	
		—
Total in Academy, . . . . .	75	
In other Departments, . . . . .	344	
		—
Total in all Departments, . . . . .	419	

COURSES OF STUDY.

The Academy is designed to fit pupils for College, for Teaching, or for Business. It offers two Courses of Study.

I. The Classical Preparatory Course extends through four years and is arranged to meet the requirements for admission to College. The study of Latin begins with the Second Form and continues for three years. The study of Greek begins with the Third Form and continues for two years. Notwithstanding the time given to these important branches of study, fully one-half of the time of the entire course is devoted to English, Historical, Mathematical, and Scientific subjects.

II. The Scientific Preparatory Course extends through four years and furnishes adequate preparation for either division of the Philosophical Course in College. The First and Second Forms of the Classical and the Scientific Courses are identical. In the Third and Fourth Forms, the student preparing for the Latin Division substitutes Historical and Scientific subjects for the Greek of the Classical Course; while the student preparing for the Greek Division substitutes the Greek of the Third and Fourth Forms for the Latin and includes the Historical and Scientific subjects.

Students may enter the Form which they are prepared to pursue with profit.

Students who are able to accomplish more work in the allotted time than is required by the Classical Course, are encouraged to add the special studies of the Scientific Course. They may also pursue extra honor work in the Classics by reading, under an instructor's direction, Cæsar's Civil War, Cicero's Letters, or Sallust, and the Books IV, V, VI, of the Iliad, or the Hellenics.

Students who are preparing for the English Scientific Course in College can elect the necessary studies from the regular Curricula of the Academy.

Students who do not intend to enter College, but who desire a comprehensive academic training, will find the Scientific Preparatory Course, with Latin, well adapted to prepare them for teaching or for business.

Transient students may elect from the studies offered in any term such branches as they are qualified to pursue.

## CURRICULA.

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### I. CLASSICAL PREPARATORY COURSE.

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#### FIRST FORM.

- |  |  |
|--|--|
| I. TERM—Arithmetic,<br>English Grammar,<br>History of the United States, | Penmanship,<br>Orthography,<br>Reading.                          |
| II. TERM—Arithmetic,<br>English Grammar,<br>General History,             | Penmanship or Drawing,<br>Orthography and Etymology,<br>Reading. |
| III. TERM—Arithmetic,<br>English Language,<br>General History,           | Penmanship or Drawing,<br>Orthography and Etymology,<br>Reading. |

#### SECOND FORM.

- |   |   |
|---|---|
| I. TERM—Higher Arithmetic,<br>Latin—Lessons,<br>Rhetoric,                         | Penmanship or Drawing,<br>Literature and Elocution,<br>Bible. |
| II. TERM—Book-keeping,<br>Latin—Lessons,<br>Grammar,<br>History of Greece,        | Penmanship or Drawing,<br>Literature and Elocution,<br>Bible. |
| III. TERM—Physical Geography,<br>Latin,<br>History of Rome,<br>Elementary Botany, | Penmanship or Drawing,<br>Literature and Elocution,<br>Bible. |

#### THIRD FORM.

- |  |   |
|--|---|
| I. TERM—Natural Philosophy,<br>Cæsar's Commentaries,<br>Greek—Lessons, | Composition,<br>Literature and Elocution,<br>Bible. |
| II. TERM—Algebra,<br>Vergil's Æneid,<br>Greek—Lessons,<br>Grammar,     | Composition,<br>Literature and Elocution,<br>Bible. |
| III. TERM—Algebra,<br>Vergil's Æneid,<br>Xenophon's Anabasis,          | Composition,<br>Literature and Elocution,<br>Bible. |



**FOURTH FORM.**

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|---|---|
| I. TERM—Algebra, Quadratics,<br>Latin—Vergil's <i>Æneid</i> ,<br>Prosody,<br>Xenophon's <i>Anabasis</i> ,<br>Greek Prose Composition, | Literature and Oratory,<br>Elocution,<br>Bible. |
| II. TERM—Plane Geometry,<br>Latin—Cicero's Orations,<br>Prose Composition,<br>Homer's <i>Iliad</i> .                                  | Literature and Oratory,<br>Elocution,<br>Bible. |
| III. TERM—Plane Geometry,<br>Cicero's Orations,<br>Greek—Homer's <i>Iliad</i> ,<br>Prose Composition,<br>Xenophon's <i>Anabasis</i> , | Literature and Oratory,<br>Elocution,<br>Bible. |
- 

**II. SCIENTIFIC PREPARATORY COURSE.****FIRST FORM.**

- |  |  |
|--|--|
| I. TERM—Arithmetic,<br>English Grammar,<br>History of the United States, | Penmanship,<br>Orthography,<br>Reading.                          |
| II. TERM—Arithmetic,<br>English Grammar,<br>General History,             | Penmanship or Drawing,<br>Orthography and Etymology,<br>Reading. |
| III. TERM—Arithmetic,<br>English Language,<br>General History,           | Penmanship or Drawing,<br>Orthography and Etymology.             |

**SECOND FORM.**

- |   |   |
|---|---|
| I. TERM—Higher Arithmetic,<br>Latin—Lessons,<br>Rhetoric,                         | Penmanship or Drawing,<br>Literature and Elocution,<br>Bible. |
| II. TERM—Book-keeping,<br>Latin—Lessons,<br>Grammar,<br>History of Greece,        | Penmanship or Drawing,<br>Literature and Elocution,<br>Bible. |
| III. TERM—Physical Geography,<br>Latin,<br>History of Rome,<br>Elementary Botany, | Penmanship or Drawing,<br>Literature and Elocution,<br>Bible. |

## THIRD FORM.

- |  |   |
|--|---|
| I. TERM—Natural Philosophy,<br>Caesar's Commentaries,<br>History of England, | Composition,<br>Literature and Elocution,<br>Bible. |
| II. TERM—Algebra,<br>Vergil's <i>Æneid</i> ,<br>Astronomy,                   | Composition,<br>Literature and Elocution,<br>Bible. |
| III. TERM—Algebra,<br>Vergil's <i>Æneid</i> ,<br>Civil Government,           | Composition,<br>Literature and Elocution,<br>Bible. |

## FOURTH FORM.

- |   |   |
|---|---|
| I. TERM—Algebra, Quadratics,<br>Latin—Vergil's <i>Æneid</i> ,<br>Prosody,<br>Physiology,          | Literature and Oratory,<br>Elocution,<br>Bible. |
| II. TERM—Plane Geometry,<br>Latin—Cicero's Orations,<br>Prose Composition,<br>English Literature, | Literature and Oratory,<br>Elocution,<br>Bible. |
| III. TERM—Plane Geometry,<br>Cicero's Orations,<br>Geology,                                       | Literature and Oratory,<br>Elocution,<br>Bible. |

## TEXT-BOOKS.

ENGLISH LANGUAGE AND LITERATURE:—Reed's Word Lessons; Kellogg and Reed's Word Building; Sheldon's Advanced Lessons in English; Reed and Kellogg's Higher Lessons; Newcomer's Composition; D. J. Hill's Elements of Rhetoric; Pancoast's Representative English Literature; English and American Classics, various editions.

MATHEMATICS:—The American Comprehensive Arithmetic; Wentworth and Hill's Higher Arithmetic; Wentworth's Elements of Algebra; Wentworth's Geometry.

HISTORY AND GOVERNMENT:—Fiske's United States; Barnes' General; Guest's English; Myer's Greece; Myer's Rome; Macy's Civil Government.

GREEK:—White's First Greek Book; Goodwin's Greek Grammar; Goodwin's Anabasis; Seymour's Iliad.

LATIN:—McMillan's Shorter Course; Welsh and Duffield's Invasion of Britain; Collar's Gate to Cæsar; Mooney's Grammar; Harper and Tolman's Cæsar; Greenough and Kittredge's Vergil; Allen and Greenough's New Cicero.

SCIENCE:—Appleton's Physical Geography; Sharpless and Phillips' Natural Philosophy; Sharpless and Phillips' Astronomy; Martin's Briefer Course in Physiology; Le Conte's Elements of Geology.

## METHODS OF INSTRUCTION.

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The Preparatory Curriculum naturally falls into six principal lines of study, viz., English, Latin, Greek, History, Mathematics, and Natural Science. These combine, in due proportion, the cultural, the disciplinary and the practical elements of intermediate education. The two great divisions of modern study, the Classical and the Scientific, are accorded adequate and appropriate preparation. The subjects, facilities and methods of the various departments are explained below.

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### I. THE ENGLISH LANGUAGE.

A thorough grounding in the principles of English Grammar is indispensable to the student's progress in the subsequent language studies. The continuous application of this knowledge in Composition, and the constant comparison with the forms and idioms of the Ancient Languages, prepare the way for the study of elementary Rhetoric, and the appreciative reading of English and American Literature. The aim is the clear, elegant, and forcible use of the mother tongue as the chief instrument of expression.

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### II. THE LATIN LANGUAGE.

The Inductive Method is used in the elementary instruction. The student investigates the formation of the language. The abstract rules of Syntax are learned from the analysis and synthesis of sentences. Careful drill is given in the declensions and conjugations, in the use of the moods and the sequence of tenses, in the ready reading of the Latin text, in sight reading and in accurate translation into idiomatic English. Attention is given to the important personal, historical, and political elements in the writings of Cæsar and Cicero. In Vergil, the student is introduced to the poetry, legend, religion, philosophy, and art of Rome. He is taught to investigate the allegorical, archæological, and mythical allusions of the *Æneid*, and to appreciate it as the mirror of the life of the Empire. Latin prosody is taught first from the text, and then from the grammar.

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### III. THE GREEK LANGUAGE.

The first two terms of the Third Form are spent in a thorough study of White's First Greek Book. In the third term Xenophon's *Anabasis* is read and special attention is given to acquiring a vocabulary and to the forms and syntax of nouns, pronouns, and adjectives. In the first half year of the Fourth Form the reading of Xenophon is continued. During the last half Homer's *Iliad* is read and the difference between Homeric and Attic forms is noted. Throughout the course Prose Composition is frequently given for the purpose of acquiring a vocabulary and a knowledge of syntax.



#### IV. HISTORY.

The course in History includes a survey of the History of the United States, England, Greece, and Rome. The aim is not so much to fill the student's mind with a collection of dates and events as to acquaint him with the life, the genius, the institutions, and the achievements of the respective peoples, and their part in the wider history of mankind. Students are encouraged to cultivate the historical imagination; to compare rare characteristics, arts, and religions, and to appreciate the noble ideals, the heroic struggles and sacrifices that have imparted imperishable worth to human institutions.

**Civil Government** is taught as a preparation for intelligent citizenship. The origin and growth of our institutions, the functions of the various departments of the National, State, and local governments, the political history of the people, the interpretation and construction of the Constitution, are presented and discussed.

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#### V. MATHEMATICS.

**Arithmetic.**—To students who are fitting themselves for business, a course is given in practical business Arithmetic, involving all the ordinary problems and practices in the business world. To those who are preparing for college or for teaching instruction is given in the theory and science of Arithmetic. Pupils are expected to master the principles and then to formulate their own rules.

**Algebra.**—The course extends through one period daily for one year, and includes a thorough knowledge of the fundamental principles, Factoring, Divisors and Multiples, Fractions, Equations, Involution, Evolution, Theory of Exponents, Radicals, and Quadratic Equations. Daily blackboard work serves to apply the principles taught. The student is required both to know the methods of the solution of problems and also to explain the operation to the class.

**Plane Geometry.**—The instruction consists in daily recitations for two terms on the Theorems and Problems given in the text-book, with original demonstrations of the same Propositions by the students from hints and figures given in the class-room. Besides this, considerable attention is given to the solution of original Propositions, and the application of principles thus learned to the solution of numerical problems.

**Book-keeping.**—A practical introduction to the science of accounts is secured in the term devoted to mastering the principles of Double Entry Book-keeping. Careful attention is given to business forms, to the usages of Banks, and to the elements of Commercial Law. The subject may be pursued in its more extended and intricate applications by a second term's work, open to properly qualified students.

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#### VI. SCIENCE.

**Physical Geography** lays a foundation for subsequent work in all sciences. It surveys the earth's physiography, climate, atmosphere, fauna, flora, ocean tides and currents, and geological agencies. Special attention is given to the physical features of the United States. The subject is illustrated by drawings, photographs, colored and relief maps, and specimens from the Museum.

**Botany** is taught by text-book, field exercise, plant analysis, and weekly lectures. A brief outline is first obtained of plant structure, physiology, growth, and reproduction. The subject is then reviewed by daily drill in analyzing, recording, classifying, and preserving specimens. The recorded analysis of fifty plants is required. Lectures explaining special forms of vegetable growth, the flora of this country, the cultivation, uses, and history of plants complete the work.

**Physiology.**—Every effort is made to impart clear ideas of the structure, parts, and functions of the human body. Special attention is given to the chemistry of foods, the laws of health, the effects of stimulants and narcotics. Suggestions are constantly made as to poisons and their antidotes, the care of the sick, disinfection and sanitation, and accidents and emergencies. Charts, manikin, and preparations are used in class.

**Natural Philosophy.**—The student is thoroughly grounded in the elements of mechanics and physics. The apparatus of the College Laboratory is available for use. The historical beginnings of each subject, and subsequent development, are sketched in brief lectures. No pains are spared to familiarize the pupil with the laws of these sciences, by instruction, experiment, review, and repeated examination. The truth of principles is proved, except where the demonstration involves the mathematics of the higher course in College.

**Astronomy.**—Descriptive Astronomy discusses the earth's relations to the solar system, the masses, motions, and orbits of each member of it; the causes and consequences of at least five motions of the earth; general boundaries of the constellations of the Zodiac and northern heavens; the accepted theories of comets, meteors, and nebulae. Charts, star maps, globes, and other apparatus are used, and the student is afforded privileges of observation in the College Observatory.

**Geology.**—The student here masters the elements of lithological, structural, dynamic, and historical Geology. Specimens of various rocks and minerals are handled in class; their composition, characteristics, and place in nature are explained; the structure of the earth in its present form is studied; the history of its evolution, the age and characteristics of its strata, the chief geological features of each continent, and the forces at work, and that have worked to produce change, are considered.

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## VII. ORATORY.

**Class Exercises.**—Members of the Fourth Form prepare and deliver two original orations each term. All other students have regular exercises in Composition and Declamation throughout the year. Public exercises are held in Bucknell Hall on Saturday morning, before the faculty and students of the Academy. Visitors are cordially welcomed to these exercises.

In addition to the private rehearsals for the work above indicated, all students receive weekly instruction in Elocution. The course includes careful drill in the Elementary sounds, in Articulation, and in Expression; in Analytical Reading, including the Bible and Hymns; and the study of Shakspeare.



## VIII. SPECIAL BRANCHES.

**Bible Study.**—The study of the Bible is pursued as a regular weekly recitation throughout the Second, Third, and Fourth Forms, in both courses of study. A scheme of study is arranged at the beginning of each year. It is intended that the successive schemes for the various years of the course will cover the Life of Christ, the Historical portions foreshadowing the Christ, and the History of the Apostolic Church.

**Literature Study.**—The reading and study of the masterpieces of English and American Literature is maintained in the Second, Third, and Fourth Forms by means of weekly recitations and conferences. The work required is identical with the "Scheme of Uniform Entrance Examinations in English Language and Literature," adopted by the "Association of Colleges and Preparatory Schools of the Middle States and Maryland." It comprises (a) careful readings of representative works of certain authors, as literature; (b) thorough study as to "subject-matter, form, and structure" of other selections. Regular examinations will determine the student's proficiency.

**The Study of Music** may be pursued by Academic students under the instruction of Professor E. Aviragnet and his Assistants, of the School of Music.

**Drawing.**—All students of the Academy may receive throughout the year weekly lessons in Free-hand Drawing and Penmanship without extra charge. Special individual instruction in Drawing is afforded at twenty-four dollars per annum.

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## IX. HEALTH AND PHYSICAL CULTURE.

**The Tustin Gymnasium** affords opportunity for physical exercise in the winter and during inclement weather at other seasons. The Directors of the Gymnasium give regular class exercises to the students of the Academy. Attendance upon physical training in the Gymnasium is obligatory during the Winter Term.

**The Athletic Association** of the Academy has been formed to encourage and regulate athletic sports. The Association is allowed to arrange match games with other similar bodies by first securing the consent of the Principal.

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## PUBLIC EXHIBITIONS.

## THIRD FORM.

The Public Exhibition of the Third Form in Declamation will take place on Saturday evening, April 30, 1898, in Bucknell Hall.

## FOURTH FORM.

The closing exercises of the Academy will be the Public Exhibition in Oratory of the Fourth Form, on Tuesday morning, June 21, 1898.



## GENERAL INFORMATION.

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### ADVANTAGES.

To the student seeking preparation for College, the Academy offers unusual inducements. Its proximity to the College secures to him an atmosphere of study, acquaintance with the guides and companions of his future course, and the benefit of numerous literary exercises to be found only in College towns. He has access to the College Library and Reading-Room. The Academy is designed to fit its pupils thoroughly for College, for Business, or for Teaching. It aims to lay broad and solid foundations for all subsequent scholarly culture, and for the successful conduct of every-day affairs.

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### GOVERNMENT.

Students are encouraged to regard self-government as the only true government. It will be the constant endeavor to secure uprightness of character, gentlemanly deportment, and diligent application to work, by kind treatment, and high standards in conduct and study. The Academy cannot knowingly accept or retain incorrigibles.

#### I. ADMINISTRATION.

1. The general control of the Academy is vested in the President of the University.

2. The government of the Academy, subject to such control, rests with the Principal of the Academy.

3. The government of each Hall is vested in the Instructor in charge, who resides in the Hall and enforces regulations for the Hours of Study, Academy Property, Hygienic Precautions, and General Deportment, and such other prudential regulations as may be ordered by the joint concurrence of the President of the University and the Principal of the Academy.

4. Each Instructor shall have charge of his classes with reference to attendance upon recitations. He shall report to the Principal cases of non-attendance, and inexcusable failure on the part of students to prepare regular lessons or special work assigned.

#### II. VIOLATION OF RULES.

1. Any officer of the Institution becoming cognizant of any violation of regulations by any pupil shall report the same to the Principal of the Academy, who shall make a record of the fact in a book provided for the purpose.

2. Every violation of the laws and prudential regulations of the Academy will subject the offender to a penalty of demerits, graded according to the flagrancy and frequency of the offense.

3. When the sum of a pupil's demerits equals ten it shall be the Principal's duty to notify the parent or guardian of the offender, specifying the offense; for every additional five demerits like notification shall be made.

4. Additional disciplinary penalties in the form of reprimand, "campus," suspension, dismissal, or expulsion, according to the necessities of the case, will follow repeated violations.

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## BUILDINGS AND ROOMS.

The Academy Buildings are described in detail in the introductory pages of this Catalogue.

**The Main Building** contains, besides its accommodations for other school and boarding purposes, furnished rooms for students. The rooms are designed to accommodate two students each, and are twenty feet by twelve feet, and fourteen feet high. They are subdivided into a study room twelve feet by ten feet, and a dormitory nine feet square. The dormitory contains a double bed with woven wire mattress. Both rooms are provided with all necessary furniture.

**The New East Hall** contains combined study and sleeping rooms, each designed for two students. These rooms are fifteen feet by twelve feet, with high ceilings, and contain two commodious closets and two single wire mattress beds with all necessary furniture.

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## UNFURNISHED ROOMS.

The Academy has a number of unfurnished rooms for the accommodation of students of mature years and of limited means. No attention by servants is given to these rooms, nor are lights supplied. Two students occupy a study room in common. The dormitories are provided with a double-spring bedstead. All other furnishing is to be done by the occupants. While second-hand articles of furniture may be obtained here, it will be to the student's advantage to bring from home bedding and carpets. The dimensions of the study rooms are ten feet by twelve feet; of the dormitory, nine feet by nine feet.

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## ARTICLES REQUIRED.

Each student should be provided with an umbrella, overshoes, table napkins, towels, soap, and other articles usually required for personal comfort. All articles for the laundry should be marked with the owner's name.

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## BOARDING.

All students from a distance will occupy rooms and will board in the Academy, except for reasons jointly satisfactory to the President of the University and the Principal of the Academy.

The Principal and his family, the Instructors, and the Matron live in the building, take their meals with the boarders, and strive in all possible ways to secure the welfare and happiness of the students. The Instructors occupy rooms

adjacent to the students' apartments. The appointments of the Dining Room, the character of the table supplies, the household service in general, are designed to furnish the comforts of a first-class boarding-house. So far as may be warranted by the deportment of the students, there will be absent from the home-life of the school all needless uniformity in irksome limitations, which disregard the reasonable individual preference of pupils.

The Academy gives to furnished rooms daily and complete attention, provides and washes all bedding and bed clothing, and supplies and cares for all lights.

Engagements for board and rooms are expected to continue without change to the end of the school year for which they are made.

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### APPLIANCES.

The Academy is in possession of excellent apparatus for instruction. A select Reference Library, containing an Encyclopedia, Lexicons, Dictionaries, Atlases, and various other helps, is accessible to students at all hours. The Classical Recitation Room is provided with Kiepert's Wall Maps of Ancient Geography, and with Reinhard's Album of Classical Antiquities, mounted. Metric apparatus, Maps and Globes render assistance in other directions.

The apparatus of the College also is accessible to the classes for purposes of experiment and illustration.

The College Library, numbering 18,000 volumes, is available for all students.

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### STUDY-ROOM.

In order to insure favorable conditions of study, the Academy maintains a public study-room for the use of day-pupils and such boarding pupils as are thereby better accommodated in the preparation of their lessons. This room is under the constant supervision of the Proctor or one of the instructors of the Academy. Except when engaged in recitation day pupils and such others as are assigned thereto, are required to occupy seats in the study-room during the day study hours, unless excused for good reason. A record of such attendance is kept, and enters into the pupil's standing at the end of the term.

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### HOURS.

The time devoted to study and recitation amounts to nine hours every week-day, except Saturday, when it is only two hours. This time should be sacred to its purpose. Parents of the day pupils are requested to co-operate with the school in securing attention to evening study hours, and to avoid furnishing excuses or granting occasions for absence.

Students from a distance should be in Lewisburg on the day preceding the opening of each term, and no student should leave until the term has closed. Punctuality in attendance is essential to success in school work.

For terms and vacations, see the Calendar of the University.



## STANDING AND PROMOTIONS.

The weekly averages of marks for recitations are recorded, and also failures in conduct and attendance. The scale for such markings ranges from 10, or perfect, to 0, or inexcusable failure. Unexcused absences count as zero.

Monthly and term examinations are held in the studies thus far completed, and term reports of the average in scholarship, attendance, and conduct of each student are sent to parents or guardians by the Principal.

No student is promoted to the next higher class whose average in any study is less than 7.

Students who complete the Preparatory Courses of Study are admitted to standing in corresponding divisions of the Freshman Class in the College, upon the Principal's certificate, without examination.

All students who complete in a satisfactory manner either the Classical or the Scientific Course of Study, and who have sustained irreproachable characters during their school residence, shall be entitled to a certificate setting forth their proficiency in the branches studied.

Students attaining an average standing of 9 are encouraged to take work additional to the Regular Courses of Study.

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## PRIZES.

### THE HARRY S. HOPPER PRIZE.

Mr. Harry S. Hopper, of Philadelphia, Chairman of the Board of Trustees, offers an annual prize for excellence in Composition.

This prize for 1897 was awarded to Hugo Bruno Charles Riemer.

### THE REV. D. P. LEAS PRIZE.

Rev. David P. Leas, of Philadelphia, Treasurer of Bucknell University, offers an annual prize to that member of the Third Form who shall excel in the Annual Exhibition of the Third Form in Declamation.

This prize in 1897 was awarded to Milton Judson Davis.

### THE WILLIAM E. MARTIN PRIZE.

Professor William E. Martin offers an annual prize to that member of the Fourth Form who shall pronounce the best oration at the Academic Graduating Exhibition.

This prize for 1897 was awarded to Joseph Zerbe Rowe.

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## LITERARY SOCIETY.

This is a voluntary organization of students for mutual improvement in literary and oratorical exercises. It has a large and convenient hall in the Main Academy Building, where meetings are held on Friday evenings.

RELIGIOUS SERVICES.

The duties of each day are opened with devotional exercises in Bucknell Hall, which all students are required to attend. Devotional exercises are also held in the Academy every evening, just before the evening study hour. All Academic students residing on the University campus are required to attend these exercises.

Regular attendance upon public worship at some church in town on Sunday morning is required ; also upon services on Thanksgiving Day, and the Day of Prayer for Colleges. Attendance upon Sunday-schools and mid-week prayer-meetings, while voluntary, is strongly urged upon students.

Parents or guardians are requested to indicate to the Principal the church which they wish their sons or wards to attend.

The Academic students maintain a branch of the Young Men's Christian Association, which holds a weekly prayer-meeting on Tuesday evenings.

EXPENSES.

EAST HALL.

	<i>Per Annum.</i>
Tuition, Board, Furnished Room, Heat, Lights, Care, Washing, and Incidentals, . . . . .	\$230 00

MAIN HALL.

Tuition, Board, Unfurnished Room, Heat, Washing, and Inci- dentals, . . . . .	185 00
Tuition, and Incidentals to Day Pupils, . . . . .	55 00

All charges are payable to the Registrar of the University in advance, at the beginning of each term, or by the 25th of September, 10th of January and April.

No student is entitled to his place in his class until he has made settlement for the term bills.

An extra charge will be made for washing more than 12 pieces per week.

Students who remain in the Academy during the holiday or spring vacation will be charged at the rate of \$4.50 per week. Table boarders will be charged the regular rate, \$3.00 per week.

Free scholarships, covering tuition, are provided in all the departments of the University for the children of Ministers of the Gospel *in actual service*.

The expenses for Music and Printing for Exhibitions and Anniversary occasions are paid by the classes for which such expenses are incurred.

For information respecting the Academy, address the President of the University, John H. Harris, Ph. D., LL. D., or the Principal, Thomas A. Edwards, A. M.

# THE INSTITUTE.

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## INSTRUCTORS AND OTHER OFFICERS.

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JOHN HOWARD HARRIS, PH. D., LL.D.,  
PRESIDENT OF THE UNIVERSITY AND INSTRUCTOR IN PSYCHOLOGY AND ETHICS.

EVELINE JUDITH STANTON, PH. M., PRINCIPAL,  
AND INSTRUCTOR IN ENGLISH LITERATURE.

ELYSEE AVIRAGNET, A. M., MUS. DOC.,  
VOCAL AND INSTRUMENTAL MUSIC AND THE ROMANCE LANGUAGES.

JULIET AIKIN,  
INSTRUMENTAL MUSIC.

ELIZABETH COLLINS EDDLEMAN, SC. B.,  
LATIN AND GERMAN.

ELIZA BELL, PH. B.,  
HISTORY AND ENGLISH.

JESSIE JUNE WHEELER, A. M.,  
MATHEMATICS.

ANNA MARGUERITE MILLER,  
DRAWING AND PAINTING.

KATHARINE ARMISTEAD CRAWFORD, MUS. B.,  
VOCAL AND INSTRUMENTAL MUSIC.

MAUD ELIZABETH HANNA, A. B.,  
ENGLISH, ELOCUTION, AND GYMNASTICS.

WILLIAM ALBERT KAUFFMAN, A. B.,  
SCIENCE.

WILLIAM EMMETT MARTIN, A. M.,  
HISTORY OF ART.

WILLIAM CHRISTIAN GRETZINGER, PH. B.,  
REGISTRAR OF THE UNIVERSITY.

ELIAS REYNOLDS,  
CARE OF THE INSTITUTE GROUNDS AND BUILDINGS.

MRS. ELIAS REYNOLDS,  
MATRON.



## DIRECTORY OF THE ALUMNÆ.

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*Vice-President*, MRS. J. R. LOOMIS.

*Recording Secretary*, MISS RUTH SPRAGUE.

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748 N. Fortieth Street, Philadelphia, Pa.

*Treasurer*, MRS. ANNA LLOYD REILLY.

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The Principal of the Institute will esteem it a favor if any graduate who changes her residence will give notice of her new address. She will also be grateful for any information that will assist in making the directory of the graduates and former students complete.

## GRADUATING CLASS.

## CLASS OF 1897.

NAME.	RESIDENCE.
MABEL EFFIE BATTEN,	<i>Auburn, N. J.</i>
ELBINA LAVINIA BENDER,	<i>Lewisburg.</i>
SARAH MARTHA BLACK,	<i>Lewisburg.</i>
RUTH NORA DAVIS,	<i>Allenwood.</i>
ALICE HELEN FOCHT,	<i>Lewisburg.</i>
ANNA CURZON JUDD,	<i>Lewisburg.</i>
MARY ANNA KLINE,	<i>Winfield.</i>
EMMA JOSEPHINE LAWSHE,	<i>Lewisburg.</i>
ELIZA JOHNSTON MARTIN,	<i>Lewisburg.</i>
MARGUERITE O'DONNELL,	<i>Texarkana, Ark.</i>
VIOLA PENSYL,	<i>Elysburg.</i>
MARGARET M. RAIKE,	<i>Doylestown.</i>
GERTRUDE WILBURN ROOS,	<i>Lewisburg.</i>
ELIZABETH PENNYPACKER ROSSITER,	<i>Pottstown.</i>
EDNA SCHUYLER SHIRES,	<i>Limestoneville.</i>
SUSAN RODENBAUGH SLIFER,	<i>Lewisburg.</i>
GERTRUDE STANNERT,	<i>Lewisburg.</i>
MARGARET MALVINA WAGNER,	<i>Lewisburg.</i>
MABEL WELLS,	<i>Wilcox.</i>

## NAMES OF STUDENTS.

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### GRADUATE STUDENTS.

NAME.	RESIDENCE.	ROOM.
BELLE BARTOL,	<i>Lewisburg.</i>	Prof. Bartol
MARGARET CLINGAN,	<i>Lewisburg.</i>	Mrs. Mary Clingan
MARY MATLACK,	<i>Lewisburg.</i>	Mrs. Geo. S. Matlack

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### THE SENIOR CLASS.

NAME.	RESIDENCE.	ROOM.
MINETTA MAY ANDERSON,	<i>Lewisburg.</i>	Mrs. Margaret Anderson
CATHERINE RUTH BOWER,	<i>Lewisburg.</i>	F. E. Bower, Esq.
MARY DUNLEAVY,	<i>Mt. Carmel.</i>	Institute
NELLE EVA HOWER,	<i>Lewisburg.</i>	Mr. Jacob Hower
KATHERINE MOTT JOHNSON,	<i>Lewisburg.</i>	Prof. B. R. Johnson
LOUISE WEIMER LAWSHE,	<i>Lewisburg.</i>	Mr. R. A. Lawshe
GRACE CELESTA MOSES,	<i>Lewisburg.</i>	Rev. William Moses
HANNAH VIRGINIA NOYES,	<i>Westport.</i>	Institute
ISABELLA SCHWEIER,	<i>Mifflintown.</i>	Institute
JESSIE THEKLA STEINER,	<i>Lewisburg.</i>	Mr. F. Steiner



## THE FOURTH YEAR CLASS.

NAME.	RESIDENCE.	ROOM.
EMILY BROWN,	<i>Rochester.</i>	Institute
CARRIE ELIZABETH DEVITT,	<i>Sharpsville.</i>	Institute
HELEN LOUISE EARLE,	<i>Lewisburg.</i>	Rev. I. N. Earle
ELIZABETH EVANS,	<i>Freeland.</i>	Institute
LUCY HAYES GRIER,	<i>Columbia.</i>	Institute
JENE DONALD HIMMELREICH,	<i>Lewisburg.</i>	Mr. S. H. Himmelreich
SARAH ETHEL JUDD,	<i>Lewisburg.</i>	Rev. John T. Judd
ELIZABETH KREMER,	<i>Lewisburg.</i>	Mr. J. K. Kremer
MARIE LOUISE LEISER,	<i>Lewisburg.</i>	A. A. Leiser, Esq.
MARY EMILY MCCREIGHT,	<i>Lewisburg.</i>	Mr. J. S. McCreight
CHARITY MARGARET RUNYAN,	<i>Lewisburg.</i>	Mr. Milton Runyan
LOUISA ANN LINN SEILER,	<i>Lewisburg.</i>	Mrs. Carl Seiler
CHARLOTTE ELLIOT SHIELDS,	<i>Lewisburg.</i>	Mr. William Shields
CLARA JANE SLIFER,	<i>Lewisburg.</i>	Mrs. C. V. Slifer
ALBERTA PEARL STAPLETON,	<i>Lewisburg.</i>	Rev. A. Stapleton
HARRIET ELSPETH VAUGHAN,	<i>Newark.</i>	Institute
CLARA WILSON,	<i>Rochester.</i>	Institute
MARTHA WOLFE,	<i>Lewisburg.</i>	Mrs. Martha E. Wolfe

## THE THIRD YEAR CLASS.

NAME.	RESIDENCE.	ROOM.
EVELYN ETTING BOOTH,	<i>Gladwyn.</i>	Institute
KATIE LUZINA CAMPBELL,	<i>Peale.</i>	Institute
NELLIE JEANETTE DUNKEL,	<i>Lewisburg.</i>	Mr. F. M. Dunkel
NELLIE GODDARD,	<i>Philadelphia.</i>	Institute
MARY FLORENCE HIGGINS,	<i>Lewisburg.</i>	Mr. D. P. Higgins
SARAH JANE ROOS,	<i>Lewisburg.</i>	Mr. Charles Roos
GRACE ECKMAN SAVIDGE,	<i>Kline's Grove.</i>	Institute
JEANETTE BENNETT SHEPARD,	<i>Baltimore, Md.</i>	Institute
ANNA STEPHENS,	<i>Lewisburg.</i>	Leroy Stephens, D. D.

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## PURSUING SELECT STUDIES.

NAME.	RESIDENCE.	ROOM.
VIOLA DEAN BELFORD,	<i>Renovo.</i>	Institute
ISABEL BURNSIDE,	<i>Buffalo, N. Y.</i>	Institute
FANNIE BELLE CARLISLE,	<i>Curwensville.</i>	Institute
LAURA CHILLSON,	<i>Shamokin.</i>	Institute
MARIE CRANDALL,	<i>Elkland.</i>	Institute
SUSIE KRESS CRANDALL,	<i>Elkland.</i>	Institute
KATHARINE DULSO,	<i>Elkland.</i>	Institute
ALICE FLORA DUNHAM,	<i>Sheffield.</i>	Institute
CARRIE ARSULA DUNKEL,	<i>Buffalo Roads.</i>	Mr. John E. Dunkle
MAUD MAY ELY,	<i>Ridgway.</i>	Institute

NAME.	RESIDENCE.	ROOM.
MABEL ROASELTHA FARLEY,	<i>Milton.</i>	Mr. John Farley
AMY ESTELLE GILBERT,	<i>Elysburg.</i>	Institute
GERTRUDE GRANT,	<i>Ridgway.</i>	Institute
MARGARET BEAVER GROFF,	<i>Lewisburg.</i>	Prof. Groff
ANNA HALFPENNY,	<i>Lewisburg.</i>	Mr. T. E. Halfpenny
JULIETTE KENDRICK,	<i>Philadelphia.</i>	Institute
SUSIE LEE,	<i>Jermyn.</i>	Institute
EDITH VANREED LEINBACH,	<i>Reading.</i>	Institute
JOSEPHINE POTTS MCCLEERY,	<i>Milton.</i>	J. P. McCleery, M. D.
MABEL FLORENCE MORGAN,	<i>Winton.</i>	Institute
NELLIE PIPER,	<i>Schuylkill Haven.</i>	Mr. W. E. Case
FRANCES GERTRUDE SCOTT,	<i>Spring Garden.</i>	Institute
CATHARINE STEPHENSON,	<i>Mahaffey.</i>	Institute
BELLE WEIGEL,	<i>Spring Garden.</i>	Institute
NELLIE WEITHAASE,	<i>Lewisburg.</i>	Home

## SUMMARY.

Graduate Students, . . . . .	3
Seniors, . . . . .	10
Fourth Year, . . . . .	18
Third Year, . . . . .	9
Pursuing Select Studies, . . . . .	25
Total in the Institute, . . . . .	65
In other Departments, . . . . .	354
Total in all Departments, . . . . .	419



## COURSES OF STUDY.

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**The Bucknell Institute** offers to young women three courses of study, each extending over five years. Students are admitted to advanced standing, if, upon examination, they are found to have satisfactory knowledge of the branches which the class they propose to enter has already completed.

Credentials from Graded Schools are accepted in the studies of the First and Second Years.

Credentials are accepted for the Third, Fourth, and Senior Years from schools whose curricula are equivalent to that of Bucknell Institute; also from accredited private teachers, in studies which are *continued* after entrance.

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### I. THE LITERARY COURSE.

**The Literary Course** embraces, in MATHEMATICS, Arithmetic, common and advanced, Algebra and Geometry, plane and solid, and Higher Algebra with Trigonometry and Analytical Geometry as electives; in LATIN, two years *required*, and a third year elective with German or French; in GERMAN and FRENCH, one year each or two of either; and in ITALIAN and SPANISH, an optional course; in SCIENCE, Physical Geography, Botany, Astronomy, Physics, Physiology, Chemistry, and Geology. In these branches the students have the advantages afforded by the College Observatory, Laboratory, and Museum. The course also includes Rhetoric, Composition, Civil Government, Psychology, Ethics, and History of Art.

Special attention is given to History and Literature, to the former of which six and to the latter of which three terms are devoted.

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### II. THE CLASSICAL COURSE.

**The Classical Course** embraces, in MATHEMATICS, Arithmetic, Algebra, Geometry, plane and solid, University Algebra, Trigonometry, and Analytical Geometry; in LATIN, Grammar and Composition, Caesar, Vergil, Cicero's Orations, Cicero de Senectute et de Amicitia, Livy, and Paternulus, in all, four years; in GREEK, Grammar and Composition, Xenophon's Anabasis, Homer's Iliad, Lysias' Orations, Herodotus, Homer's Odyssey, and the Greek Testament, in all, three years; in HISTORY, General History, and Greek and Roman History.

Students who complete the Classical Course are admitted to the Sophomore Class in College as candidates for the first degree in Arts.

### III. THE LATIN SCIENTIFIC COURSE.

The **Latin Scientific Course** corresponds to the Classical Course, except that scientific subjects are substituted for the first two years of Greek, and German for the third year of Greek.

Students who complete the Latin Scientific Course are admitted to the Sophomore Class in College as candidates for the first degree in Philosophy.

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### SELECT STUDIES.

Students who do not wish to pursue a course of study may elect such subjects in connection with the recitations of the regular classes as they may be qualified to pursue.

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### REQUIREMENTS FOR ADMISSION.

The required age for admission to the first-year class or to pursue select studies is twelve years, and a proportionate increase of age for admission to advanced classes.

The candidate for admission must present testimonials of good moral character.

## CURRICULA.

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### I. THE LITERARY COURSE.

#### FIRST YEAR.

- |                        |                   |
|------------------------|-------------------|
| I. TERM—Arithmetic,    | Bible,            |
| United States History, | Composition,      |
| English Grammar,       | Penmanship.       |
| II. TERM—Arithmetic,   | Bible,            |
| General History,       | Composition,      |
| English Grammar,       | Penmanship,       |
|                        | Physical Culture. |
| III. TERM—Arithmetic,  | Bible,            |
| General History,       | Composition,      |
| English Language,      | Penmanship.       |

#### SECOND YEAR.

- |                         |                   |
|-------------------------|-------------------|
| I. TERM—Latin—Lessons,  | Bible,            |
| Rhetoric,               | Composition,      |
| Higher Arithmetic,      | Elocution.        |
| II. TERM—Latin—Lessons, | Bible,            |
| Grammar,                | Composition,      |
| History of Greece,      | Elocution,        |
| Book-keeping,           | Physical Culture. |
| III. TERM—Latin,        | Bible,            |
| Physical Geography,     | Composition,      |
| Botany,                 | Reading,          |
| History of Rome,        | Physical Culture. |

#### THIRD YEAR.

- |                     |                      |
|---------------------|----------------------|
| I. TERM—Cæsar,      | Bible,               |
| Natural Philosophy, | Reading of Classics, |
| English History,    | Composition,         |
|                     | Drawing.             |
| II. TERM—Vergil,    | Bible,               |
| Algebra,            | Composition,         |
| Astronomy,          | Reading of Classics, |
|                     | Drawing,             |
|                     | Physical Culture.    |
| III. TERM—Vergil,   | Bible,               |
| Algebra,            | Composition,         |
| Civil Government,   | Reading of Classics, |
|                     | Drawing.             |



**FOURTH YEAR.**

- |   |   |
|---|---|
| I. TERM—Vergil, <i>or</i><br>German,<br>Algebra, Quadratics,<br>Physiology,                             | Bible,<br>Composition,<br>Drawing,<br>Elocution.          |
| II. TERM—Cicero, <i>and</i><br>Latin Prose Composition, <i>or</i><br>German,<br>Geometry,<br>Chemistry, | Bible,<br>Composition,<br>Elocution,<br>Physical Culture. |
| III. TERM—Cicero, <i>or</i><br>German, <i>and</i><br>Geometry,<br>Geology,                              | Bible,<br>Composition,<br>Elocution,<br>Physical Culture. |

**SENIOR YEAR.**

- |   |   |
|---|---|
| I. TERM—Psychology,<br>English Literature,<br>French, <i>or</i><br>German, <i>or</i><br>Higher Algebra, <i>and</i><br>Geometry, | Bible,<br>Composition,<br>Elocution,<br>Physical Culture. |
| II. TERM—English Literature,<br>History of Art, <i>or</i><br>French, <i>or</i><br>German, <i>or</i><br>Trigonometry,            | Bible,<br>Composition,<br>Elocution,<br>Physical Culture. |
| III. TERM—Ethics,<br>American Literature,<br>French, <i>or</i><br>German, <i>or</i><br>Analytical Geometry.                     | Bible,<br>Composition,<br>Elocution.                      |

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**II. THE CLASSICAL COURSE.****FIRST YEAR.**

- |   |  |
|---|--|
| I. TERM—Arithmetic,<br>United States History,<br>English Grammar, | Bible,<br>Composition,<br>Penmanship.                      |
| II. TERM—Arithmetic,<br>General History,<br>English Grammar,      | Bible,<br>Composition,<br>Penmanship,<br>Physical Culture. |
| III. TERM—Arithmetic,<br>General History,<br>English Language,    | Bible,<br>Composition,<br>Penmanship.                      |

**SECOND YEAR.**

- |   |   |
|---|---|
| I. TERM—Latin—Lessons,<br>Rhetoric,<br>Higher Arithmetic,                         | Bible,<br>Composition,<br>Elocution.                      |
| II. TERM—Latin—Lessons,<br>Grammar,<br>History of Greece,<br>Book-keeping,        | Bible,<br>Composition,<br>Elocution,<br>Physical Culture. |
| III. TERM—Latin,<br>Physical Geography,<br>Elementary Botany,<br>History of Rome, | Bible,<br>Composition,<br>Reading,<br>Physical Culture.   |

**THIRD YEAR.**

- |  |   |
|--|---|
| I. TERM—Natural Philosophy,<br>Cæsar's Commentaries,<br>Greek—Lessons, | Bible,<br>Reading of Classics,<br>Composition,<br>Drawing.                      |
| II. TERM—Algebra,<br>Vergil's Æneid,<br>Greek—Lessons,<br>Grammar,     | Bible,<br>Composition,<br>Reading of Classics,<br>Drawing,<br>Physical Culture. |
| III. TERM—Algebra,<br>Vergil's Æneid,<br>Xenophon's Anabasis,          | Bible,<br>Composition,<br>Reading of Classics,<br>Drawing.                      |

**FOURTH YEAR.**

- |   |   |
|---|---|
| I. TERM—Algebra, Quadratics,<br>Latin—Vergil's Æneid,<br>Prosody,<br>Xenophon's Anabasis,<br>Greek Prose Composition, | Bible,<br>Composition,<br>Drawing,<br>Elocution.          |
| II. TERM—Plane Geometry,<br>Latin—Cicero's Orations,<br>Prose Composition,<br>Homer's Iliad,                          | Bible,<br>Composition,<br>Elocution,<br>Physical Culture. |
| III. TERM—Plane Geometry,<br>Cicero's Orations,<br>Greek—Homer's Iliad,<br>Prose Composition,<br>Xenophon's Anabasis, | Bible,<br>Composition,<br>Elocution,<br>Physical Culture. |

## SENIOR YEAR.

- |            |   |  |
|------------|---|--|
| I. TERM—   | { Geometry,<br>Algebra,<br>Cicero de Senectute,<br>Odyssey,<br>Greek Prose Composition, | English Bible,<br>Elocution,<br>English Composition. |
| II. TERM—  | { Trigonometry,<br>Algebra,<br>Livy,<br>Herodotus and Thucydides,<br>Greek Testament,   | Derivatives,<br>Elocution,<br>English Composition.   |
| III. TERM— | Analytical Geometry,<br>Paterculus and Pliny,<br>Lysias,<br>Greek Testament,            | Chemistry,<br>Elocution,<br>English Composition.     |
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## III. THE LATIN SCIENTIFIC COURSE.

## FIRST YEAR.

- |            |   |                                       |
|------------|---|---------------------------------------|
| I. TERM—   | Arithmetic,<br>United States History,<br>English Grammar, | Bible,<br>Composition,<br>Penmanship. |
| II. TERM—  | Arithmetic,<br>General History,<br>English Grammar,       | Bible,<br>Composition,<br>Penmanship, |
|            |   | Physical Culture.                     |
| III. TERM— | Arithmetic,<br>General History,<br>English Language,      | Bible,<br>Composition,<br>Penmanship. |

## SECOND YEAR.

- |            |   |   |
|------------|---|---|
| I. TERM—   | Latin—Lessons,<br>Rhetoric,<br>Higher Arithmetic,                       | Bible,<br>Composition,<br>Elocution.                      |
| II. TERM—  | Latin—Lessons,<br>Grammar,<br>History of Greece,<br>Book-keeping,       | Bible,<br>Composition,<br>Physical Culture,<br>Elocution. |
| III. TERM— | Latin,<br>Physical Geography,<br>Elementary Botany,<br>History of Rome, | Bible,<br>Composition,<br>Reading,<br>Physical Culture.   |



**THIRD YEAR.**

- |   |   |
|---|---|
| I. TERM—Caesar's Commentaries,<br>Natural Philosophy,<br>English History, | Bible,<br>Composition,<br>Reading of Classics,<br>Drawing.                      |
| II. TERM—Algebra,<br>Vergil's Æneid,<br>Astronomy,                        | Bible,<br>Composition,<br>Reading of Classics,<br>Drawing,<br>Physical Culture. |
| III. TERM—Algebra,<br>Vergil's Æneid,<br>Civil Government,                | Bible,<br>Composition,<br>Reading of Classics,<br>Drawing.                      |

**FOURTH YEAR.**

- |   |   |
|---|---|
| I. TERM—Algebra, Quadratics,<br>Latin—Vergil's Æneid,<br>Prosody,<br>Physiology,                  | Bible,<br>Composition,<br>Drawing,<br>Elocution.          |
| II. TERM—Plane Geometry,<br>Latin—Cicero's Orations,<br>Prose Composition,<br>English Literature, | Bible,<br>Composition,<br>Elocution,<br>Physical Culture. |
| III. TERM—Plane Geometry,<br>Cicero's Orations,<br>Geology,                                       | Bible,<br>Composition,<br>Elocution.                      |

**SENIOR YEAR.**

- |   |  |
|---|--|
| I. TERM— { Geometry,<br>Algebra,<br>Cicero de Senectute,<br>German, | English Bible,<br>Elocution,<br>English Composition. |
| II. TERM— { Trigonometry,<br>Algebra,<br>German,<br>Livy,           | Derivatives,<br>Elocution,<br>English Composition.   |
| III. TERM—Analytical Geometry,<br>Paterculus and Pliny,<br>German,  | Chemistry,<br>Elocution,<br>English Composition.     |

## TEXT-BOOKS.

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The following text-books are used : McCosh's Cognitive Powers, Hyde's Ethics, D. J. Hill's Rhetoric, Pancoast's English Literature, Goodyear's History of Art, Collar and Daniels' Latin Exercises, Harper and Tolman's Cæsar, Allen and Greenough's Cicero, Harper and Miller's Vergil, Rockwood's Cicero de Senectute, Lord's Livy, Platner's Pliny, Rockwood's Velleus Paterculus, White's First Greek Book, Gleason's Gate to the Anabasis, Goodwin's Anabasis, Seymour's Iliad, Perrin's Odyssey, Morgan's Lysias, Butler's Herodotus, Scribner's Greek Testament, Keller's First Year in German, Buchheim's Deutsche Lyrik; Hatfield's Composition, Keller's Bilder aus der deutschen Literatur, Schiller's Der Taucher, Goethe's Gotz von Goetinger, Goethe's Hermann and Dorothea and Faust, Wentworth's Grammar School Arithmetic, Wentworth's Higher Arithmetic, Wentworth's Algebra, Well's College Algebra, Wentworth's Geometry, Bartol's Solid Geometry, Wentworth's Trigonometry, Nichol's Analytical Geometry, Sharpless and Philips' Natural Philosophy and Astronomy, Gray's Botany, Walker's Physiology, Barnes' General History, Fiske's History of the United States, Guest's History of England, Myer's History of Greece and of Rome, Macy's Civil Government.

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## METHODS OF INSTRUCTION.

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### I. PSYCHOLOGY AND ETHICS.

Psychology is taught by text-book and informal lectures. The relation of Psychology to education is made a special feature of the course.

The aim in the course in Ethics is to make the instruction as practical as possible. Hyde's work on Ethics is used as a text-book.

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### II. LITERATURE AND ART.

LITERATURE is taught by topical outlines, the elaboration of which depends upon a sympathetic study of the masterpieces in connection with the lives and times of the writers. The subject is so presented that a vital experience results from the contact rather than an empty form of knowledge to encumber the memory. The object of the course is to cultivate and ennoble the emotions, to stimulate the imagination, and to reinforce the will with strong and exalted motives.

**THE HISTORY OF ART** is an elective study in the Senior year. The aim of the course is to give a general knowledge of the development of art and to lead to an acquaintance with individual artists and their work. Some attention is given to the theories concerning the origin of the art-impulse itself, and the law of the mental evolution which has governed the history of art.

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### III. HISTORY.

**History.**—Six terms are devoted to this study. The course embraces General History, the History of the United States, of England, and of Greece, and of Rome. The text-book is supplemented by the topical method. Efforts are made to convince the learner that History is not mere facts in chronological order, but a record of the development of civilization.

**Civil Government** is taught as a preparation for intelligent citizenship. The origin and growth of our institutions, the functions of the various departments of the National, State, and local governments; the political history of the people; the interpretation and construction of the Constitution, are discussed.

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### IV. THE ENGLISH LANGUAGE.

**English Grammar.**—The aim is to enable the pupils to speak and write the English language with accuracy and force. No text-book is used, the instruction being inductive.

**Rhetoric** is taught as a practical aid to English Composition. Daily exercises in Composition are required.

**English Composition** is required throughout the course. Classes in Composition meet weekly for general criticism and the assignment of work. One essay is required from each student monthly, and an exercise in rapid and concise writing is assigned weekly.

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### V. THE LATIN LANGUAGE.

The method employed with beginners is the Inductive. Paradigms of Declension and Conjugation, with the Principles of Syntax, are introduced gradually, after many illustrations. English sentences are translated into Latin, readiness in Latin Composition and a correct style being thus acquired.

The following courses are offered: 1. Latin Grammar and Lessons, two terms; 2. Cæsar: Gallic War, two terms; 3. Vergil: *Æneid*, three terms; 4. Cicero: Orations, two terms; 5. Cicero *De Senectute* and Livy, one term; Livy: Books XXI and XXII, one term; 7. Paterculus and Pliny, one term.



## VI. THE GREEK LANGUAGE.

The first half year of the Third Year is spent in acquiring sufficient knowledge of forms and inflections to commence the study of Xenophon's *Anabasis*. During the last half year, special attention is given to the inflection and syntax of nouns, pronouns, and adjectives. The reading of Xenophon is continued in the first term of the Fourth Year, and the forms and syntax of verbs made a special study. Homer is then read for one term and a half, and the difference between Homeric and Attic forms is noted. During the last half term Xenophon is reviewed, that the student may refresh her knowledge of Attic Greek, and may not find her transition to College needlessly difficult. Almost daily drill is given in turning into Greek, sentences based on the text of Xenophon.

The following courses in Greek are offered to students in the Classical Course : 1. Greek Lessons, two terms ; 2. Xenophon : *Anabasis*, two terms ; 3. Homer : *Iliad*, two terms ; 4. Lysias : *Orations*, one term ; 5. Herodotus : *Selections*, one term ; 6. Homer : *Odyssey*, one term ; 7. Greek New Testament.

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## VII. MODERN LANGUAGES.

**1. French, Italian, and Spanish.**—The modern languages are taught by comparing them with the mother tongue of the pupil, if there be any relation between them. If there is none, they are compared with the Latin and Greek languages. In French, rules are taught by which the words that are not exactly the same in the two languages are easily made into French.

French Syntax is taught by examples and illustrations from readings. The grammar is taught from the language, and not the language from the grammar. Dictation exercises are given from Whitney's *Practical French*.

As far as practicable French only is spoken in the class-room. Extracts are read from the best French literature. Conversations are held in French on the readings, stories are related, and compositions prepared in French by the pupil.

The aim is to teach the Modern Languages so that they can be spoken correctly.

The same method is used in teaching Spanish and Italian.

**2. German.**—In the study of German the aim is to get a knowledge of the language in an all-round way. This is accomplished not alone through the study of grammar and the translation of German into English, but by daily practice in conversation, the committing to memory of poems and idioms, and through an acquaintance with biography and the different phases of German life. As little English as practicable is used in the class-room. Throughout the course there is constant sight-reading, translation at hearing, and translation from English into German.

The reading of the second year includes the best German authors studied in connection with Keller's *History of German Literature*.

## VIII. MATHEMATICS.

**Arithmetic.**—Two objects are considered in teaching the subject: first, to give the student a practical knowledge of all ordinary business problems and calculations; second, to develop her ability to think logically and rapidly. The memorizing of rules and mechanical processes is not required, but independent thought, logical analysis and neatness, clearness and accuracy in all written work are demanded. A drill in Mental Arithmetic is combined with the required work of the text-book.

**Elements of Algebra.**—Three terms are given to this subject. There is thorough drill in the fundamental operations, and the idea that these are simply the application of arithmetical processes to symbols of general value is kept constantly in mind. The course includes Quadratic Equations, Theory of Exponents, Variation, and Series.

**Geometry.**—The course includes Plane and Solid Geometry. Besides the demonstrations of Theorems given in the text-book, original demonstrations and the solution of problems are required.

**Higher Algebra.**—The topics discussed are: Progressions, Theory of Limits, Differentiation, Development of Functions into Series, Convergency and Summation of Series, Logarithms, Compound Interest and Annuities, Permutations and Combinations, Probability, Continued Fractions, and the Theory of Equations.

**Trigonometry.**—The course includes Plane and Spherical Trigonometry. Time is given to the numerical illustration of principles, for the purpose of making sure that the meaning and use of formulæ, demonstrated and learned, are thoroughly understood.

**Analytical Geometry.**—The student is taught the elementary properties of the right line and the conic sections. The course is intended to give a clear conception of the method of Cartesian Analysis, rather than an extensive knowledge of its results.

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## IX. SCIENCE.

**Natural Philosophy.**—The student is thoroughly grounded in the elements of mechanics and physics. The historical beginnings of each subject, and subsequent developments, are sketched in brief lectures. No pains are spared to familiarize the pupil with the laws of these sciences by instruction, experiment, review, and repeated examination. The truth of principles is proved, except where the demonstration involves the higher mathematics. The apparatus of the College is available for class use.

**Astronomy.**—Descriptive Astronomy discusses the earth's relation to the solar system, the masses, motions, and orbits of each member; the causes and consequences of at least five motions of the earth; general boundaries of the constellation of the Zodiac and Northern Heavens; the accepted theories of comets, meteors, and nebulae. Charts, star maps, globes, and other apparatus are used, and the student is afforded privilege of observations in the College Observatory.

**Physical Geography** lays a broad foundation for subsequent work in all sciences. Special attention is given to the physical features of the United States.



Drawings, photographs, colored and relief maps, and specimens from the Museum, aid to make the subject clear.

**Geology.**—The student is required to master the elements of lithographical, structural, dynamic, and historical Geology. Specimens of various rocks and minerals are handled in class; their composition, characteristics, and place in nature are explained; the structure of the earth in its present form is studied; the history of its evolution, the age and characteristics of its strata, the chief geological features of each continent, and the forces at work are considered.

**Botany** is taught by text-book, plant analysis, and weekly lectures. A brief outline is first obtained of plant structure, physiology, growth, and reproduction. The subject is then reviewed by daily drill in analyzing, recording, classifying, and preserving specimens. The recorded analysis of fifty plants is required. Lectures explaining special forms of vegetable growth, the flora of this country, the cultivation, uses, and history of plants complete the work.

**Physiology.**—Every effort is made to impart clear ideas of the structure, parts, and functions of the human body. Special attention is given to the chemistry of foods, the laws of health, and the effects of stimulants and narcotics. Suggestions are also made as to poisons and their antidotes, the care of the sick, disinfection and sanitation, and accidents and emergencies. The subject is illustrated by the use of a manikin, charts, and preparations.

**Descriptive Chemistry** is taught by text-book and lectures. The object of the course is to give the student a general knowledge of the common elements, their sources, uses, compounds, and behavior towards other elements and compounds, and to drill the student in writing formulæ and solving chemical equations. To accomplish this, each student will be expected to spend at least five hours each week in the Laboratory, studying the characteristics and reactions of the elements and their compounds, and performing the experiments outlined in the text and lectures. Notes will be kept by each student, describing the experiment and giving the equation which represents the reaction taking place. The Instructor from time to time examines the note-books, and makes such suggestions as he thinks may be helpful.

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## X. ELOCUTION.

This department is open to all members of the Institute. Its aim is the correct and effective utterance of thought. Special attention is given to Voice Culture, Articulation, including Pronunciation and Expression. Weekly Rhetoricals afford opportunity for platform work. Bible Reading and the Study of Shakspeare have places in the course.

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## PHYSICAL CULTURE.

The health of the students is made a prime object of attention, and sanitary requirements are carefully observed. The Institute Gymnasium has been re-furnished, and classes in Physical Culture are organized for the benefit of all students. The exercises practiced are such as tend to develop grace and strength. The Institute Campus of six acres furnishes facilities for exercise. Lawn Tennis and other out-door games are encouraged, and exercise in the open air is required.



## ÆSTHETIC CULTURE.

It is intended that the pupils of the Institute shall have the influence unconsciously received from painting, music, and refined surroundings, as well as direct instruction in Literature, Music, and Art. Special instruction in Music and Art is given in the schools devoted to those subjects.

The art collection has been recently enriched by a fine oil painting, "Tobit's Offering to the Angels," presented by Mrs. H. S. Hopper.

The Venus de Milo and other casts have also been added.

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## SOCIAL CULTURE.

Pupils are trained to observe the usages of good society. Meetings of various organizations for improvement in Literature, Music, and Art, and receptions in charge of the pupils add variety to student life. No effort is spared to give the pupils the advantages of a cultured home. The purpose is to develop the social life of the institution within itself. Students are not permitted, during term-time, to visit in neighboring towns. The number of social functions during a term is limited, and the consent of the Principal must be obtained for each function at least one month before it is to occur.

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## RELIGIOUS TRAINING.

The Institute is distinctively Christian in its influence. Morning and evening Chapel in the Hall of the Institute building is attended by all students in the Institute courses, special students, and ladies pursuing studies in the School of Music. College women living in the Institute attend evening Chapel.

Attendance upon Sabbath school and church services in town is required. All students have weekly recitations in Inductive Bible Study. The students have organized several special classes for Scripture study.

**The Young Women's Christian Association**, a voluntary society open to the officers and students of the Institute, meets on the second Sunday and on the second Thursday of each month. The regular Tuesday evening prayer-meeting, with other devotional meetings, and missionary and temperance work, are in charge of this Association.

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## SPECIAL BRANCHES.

1. Italian and Spanish may be taken as optional studies, under the instruction of M. Elysée Aviragnet.

All optional studies must be pursued in connection with the regular classes.

2. Bible instruction is given once a week throughout the entire course.

3. Essays are required of all students each month.

4. Two declamations are required of each student during each term.

5. Exercises in Elocution are required once a week of all classes. The textbook is Shoemaker's Practical Elocution, and the course of instruction includes: Voice Culture; Modulation; Analytical Reading; Articulation—Phonetics; Expression—Gestures, and the study of Shakspeare.

6. Special individual instruction in Elocution is offered at fifty cents a lesson.

## PUBLIC EXERCISES.

## THE EXERCISES OF THE GRADUATING CLASS.

The Commencement Exercises of the Institute are held in the College Commencement Hall on Tuesday afternoon of Commencement week.

## THE EXERCISES OF THE FOURTH-YEAR CLASS.

The Exercises of the Fourth-Year Class, a combined musical and literary entertainment, are held in Bucknell Hall on the first Saturday evening in the month of May.

## THE CONTEST IN ELOCUTION.

A Contest in Elocution for the prize in that subject, open to all members of the Institute, takes place in Bucknell Hall on the second Saturday evening in the month of May.

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## ALUMNÆ SOCIETIES.

The Alumnae Association holds its anniversary on Monday afternoon of Commencement week.

The Lewisburg Alumnae Club meets at the Institute on the second Tuesday evening of each month during term-time.

The Philadelphia Alumnae Club is composed of graduates living in and near that city.

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## STUDENTS' LOAN SOCIETY OF BUCKNELL INSTITUTE.

In June, 1887, there was organized in connection with Bucknell Institute an Association for the purpose of assisting young women of limited means to obtain an education. A fund was established by gifts from the Alumnae and friends of the Institute. The money is loaned to beneficiaries, who obligate themselves to return it, *without interest*, as soon after their graduation as they may be able.

Before the organization of this Society, many promising students at Bucknell Institute were unable to finish the course of study because there was no provision for financial assistance.

Since 1887, but for the help of this Association, some of the best of our graduates would have been deprived of the training which has fitted them for the positions they now fill as teachers, authors, missionaries, and pastors' helpers.

During this first decade twenty-four young ladies have received aid. More than one-fourth of these have returned the loan in full.

The Society meets in the parlors of the Institute on the first Tuesday afternoon after the opening of each term, at half-past two o'clock.

The annual meeting for the election of officers is held at the Institute on the first Tuesday after the opening of the school in September.

The payment of one hundred dollars constitutes the donor a Life Member of the Association; five dollars annually, an Active Member.

Contributions should be sent to the Treasurer, Mrs. T. H. Purdy, Sunbury, Pa. Any information will be given by the President, Mrs. Katharine B. Larison, Cocheton Centre, N. Y., or Mrs. John T. Judd, Corresponding Secretary, Lewisburg, Pa.



THE ART DEPARTMENT.

MISS MARGUERITE MILLER.

The facilities for the study of Art have been greatly increased by the accommodations allotted to this department, in a special studio, which provides such adjustments for admission of light and unencumbered wall surface as render it adapted for the execution and display of art productions.

For such students as desire opportunity for work preparatory to professional study, and for those who wish to fit themselves to give systematic instruction in drawing, the following course is provided :

**First Year.**—Drawing in Pencil, Charcoal, and Crayon from solid geometrical forms, and portions of the human figure, with the necessary elements of Perspective, the Laws of Proportion, and the Relations of Light and Shade.

**Second Year.**—Drawing from the Antique in Coal, Crayon, Sepia, or Oil Monochrome ; Modeling in Clay or Wax. Study in Color from Draperies, and Still Life.

**Third Year.**—Composition, Color in Landscape, Pen and Ink Drawing, and Painting in Color from Nature and from Life.

On successful completion of this entire course a certificate of proficiency will be awarded.

Students who do not desire the certificate course, and whose interest is in Decorative Work, will receive the requisite instruction in the latest methods—China Painting, Tapestry Dyeing, and applied Design in other mediums and materials.

Charges for instruction in Art are as follows :

	<i>Per Annum.</i>
Drawing, . . . . .	\$24 00
Crayoning, . . . . .	33 00
Painting in Oil, Water Colors, Pastel, or on China, . .	60 00
	<i>Per Lesson.</i>
Special individual instruction in Painting, . . . . .	\$1 00

Free-hand Drawing is a part of the required work of the school, without extra charge.

ART EXHIBIT.

On the last three days of Commencement Week, a display of art products by the pupils of the School of Art is made in the Studio. At this time, a committee of art students receives and entertains all those who visit the Studio.



GRADUATE IN ART, 1897.

NAME.	RESIDENCE.
WILHELMINA MALINDA DARLINGTON, . . . . .	Lewisburg

CLASS IN ART.

EVELYN ELTING BOOTH, . . . . .	Gladwyn
FANNY BELLE CARLISLE, . . . . .	Curwensville
ALICE FLORA DUNHAM, . . . . .	Sheffield
GERTRUDE GRANT, . . . . .	Ridgway
GEORGE BAILEY HARRIS, . . . . .	Lewisburg
CLYDE MOWERY HEDDENS, . . . . .	Washingtonville
MABEL FLORENCE MORGAN, . . . . .	Winton
SAMUEL CALVIN SMITH, . . . . .	Hollidaysburg

## GENERAL INFORMATION.

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### ADVANTAGES.

The Bucknell Institute offers to young ladies superior educational advantages. Its location in a University town assures an atmosphere of study and the benefit of numerous literary exercises, lectures, and addresses. The students in the Institute have the use of the Library and apparatus of the Institute, and also of the College Astronomical Observatory, Chemical Laboratory, Museum, and Library, and the various apparatus of the University. An isolated school could not provide for itself these advantages at a cost of less than a quarter of a million dollars.

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### ADMINISTRATIVE AND OTHER REGULATIONS.

1. The general control of the Institute is vested in the President of the University.
  2. The government of the Institute, subject to such control, rests with the Principal of the Institute.
  3. Young ladies attending the College or School of Music are subject to the rules and regulations governing young ladies attending the Institute.
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### RULES.

The laws governing the Institute are enacted by the Board of Trustees.

Any officer of the Institute becoming cognizant of violation of regulations by any pupil shall report the same to the Principal of the Institute, who shall make a record of the fact in a book provided for the purpose. Any second violation by the same pupil shall also be reported to the President of the University; and if, in the judgment of the President of the University, and the Principal of the Institute, the offense be of sufficient gravity, the parent or guardian of the offending pupil shall be notified.

Violations of the regulations of the Institute or infraction of the laws of morality are punished by private reprimand, deprivation of privileges, or private withdrawal from the Institute.

The following are selections from the regulations:

1. No student is allowed to leave the Institute grounds at any time without permission from the Principal.

2. Unless for reasons very satisfactory, students from a distance are not permitted to visit their homes, or to leave the Institute to visit with relatives or friends in town. A student will not be permitted to spend the night with friends in town.

3. None but near relatives and friends from a distance are allowed to visit with boarding students, and such visits must be so arranged as not to interfere with the regular hours of study and recitation.

4. Students are not at liberty to invite guests to their private apartments, or to any part of the building, without permission from the Principal.

5. Teachers and students take their meals at the same table, and no special article of food is served to any one except in case of sickness.

6. Parents and guardians are particularly requested to refrain from furnishing their daughters and wards with *eatables of any kind*, except fruit.

7. Patrons visiting young ladies at the Institute may be accommodated with board at one dollar a day, if there are vacant rooms. In no case will students be required to give up their rooms to visitors. Visitors will conform to the general regulations of the Institute.

8. Regular and systematic exercise, both in the open air and in the Ladies' Gymnasium, is required of each student.

9. In the Regular Course, the number of daily recitations is fixed. Special students are required to engage in such a number as may, in the judgment of the Principal, be sufficient to occupy their time.

10. The character of each recitation is recorded at the time, and the result together with a statement of the general industry and deportment of the student, is sent to the parent or guardian at the close of the term.

11. The passing grade in any study is a definite one, and must be attained before promotion can be secured.

12. No room will be reserved for a student unless definitely engaged.

13. The books and current periodicals of the College and Institute Libraries are available for all students.

14. ARTICLES REQUIRED.—Each student should be provided with an umbrella, waterproof, overshoes, table napkins, towels, covers for bureau and washstand, counterpanes, sheets, and pillow-cases. The size of pillow is twenty by thirty inches; of the bureau, forty-three by nineteen inches; of the washstand, thirty-two by sixteen inches.

Every article of clothing should be marked with the owner's name in full.

It is especially desired that the dress of pupils shall be simple and inexpensive. Wherever practicable, the wardrobe should be prepared at home, to avoid frequent visits to town.

#### THE INFIRMARY AND DISPENSARY.

An infirmary, for students who become sick during their residence in the school, has been established in an isolated portion of the main building.

A dispensary, containing medicines for use in sudden illness, has also been established.



## PRIZES.

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### I. THE BUCKNELL PRIZES.

The following prizes were founded by William Bucknell, of Philadelphia:

1. A First Senior Prize, to be awarded to the member of the graduating class who, being excellent in scholarship during the Senior Year, shall prepare the best essay.

2. A Second Senior Prize, to be awarded to the member of the graduating class who, being excellent in scholarship during the Senior Year, shall prepare the second best essay.

For the year 1897 the First Prize of twenty-four dollars was awarded to Elbina Bender and the Second Prize of sixteen dollars to Mabel Wells.

3. A Third Senior Prize, to be awarded to the member of the graduating class who shall attain the highest grade in the studies of the Senior Year. This excludes all grades for studies not in the Senior Year, all Senior studies taken before the Senior Year, and all studies not taken in the Institute.

For the year 1897 this prize of twenty-five dollars was awarded to Margaret Wagner.

4. A First Fourth Year Prize, to be awarded to the member of the Fourth Year Class who, being excellent in scholarship during the year, shall prepare the best Fourth Year essay.

5. A Second Fourth Year Prize, to be awarded to the member of the Fourth Year Class who, being excellent in scholarship during the year, shall prepare the second best Fourth Year essay.

For the year 1897 these prizes were awarded as follows: Katharine Johnson received the First Prize of twenty dollars, Grace Moses the Second Prize of fifteen dollars.

The fund consists of \$2,000, the income from which is to be devoted to these prizes annually in a manner more particularly defined in the donor's communication to the Trustees.

Themes for the Bucknell Essay Prizes will be drawn from the following works:

For 1898.—Milton's *Paradise Lost*, Books I and II; Coleridge's *Ancient Mariner*; Carlisle's *Essay on Burns*; Hawthorne's *House of the Seven Gables*.

For 1899.—Chaucer's *Prologue to the Canterbury Tales*; George Eliot's *Mill on the Floss*; Emerson's *Essay on Character*; Browning's *Pippa Passes*.

## II. THE LIPPINCOTT PRIZE.

An award of fifty dollars has been offered by Mr. Craige Lippincott, to the student who proves, on examination, to have the best command of the English Language, and the most thorough knowledge of British and American Literature. For the year 1897 this Prize was awarded to Mabel Wells.

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## III. THE ELOCUTION PRIZE.

A Prize in Elocution is offered to the student who shall give the best recitation at the Annual Contest.

For 1897 the Prize was divided between Elizabeth Rossiter and Harriet Elspeth Vaughan.

EXPENSES.

I. **Boarding Students.**—The regular charge for Boarding Students is \$230.00 per annum ; the other expenses, spending-money, books, and clothing will vary with the individual student.

Students are charged extra for the washing of dresses, and for the washing of more than 12 pieces per week.

The rooms in the Bucknell Cottage are rented in suites, for which there is an extra charge, depending on the location.

	<i>Per Annum.</i>
Suite on the first floor, . . . . .	\$30 00
Suite on the second floor, . . . . .	40 00
Suite on the third floor, . . . . .	28 00

Each suite contains a study and two sleeping apartments, and has accommodations for four persons, and the charge will be divided accordingly.

If a student arranges to occupy one of the large rooms, in the South Hall of the Main Building, by herself, extra room-rent will be charged.

Students will be charged for damage done to furniture or to the room they occupy.

II. **Day Students.**—The charges for Day Students amount to \$55.00 per annum.

III. **Extra Studies.**—The charges for Elocution, Drawing and Painting, and Music, will be found under those titles.

Bills are payable *strictly in advance*, on the 15th of September, January, and April.

Checks and drafts should be drawn in favor of the Registrar of the University.

No bill will be made out for a shorter period than one term ; and no deduction will be made except in the charge of board in case of a prolonged absence on account of sickness.

The expenses for Music, Printing, and other charges ordinarily incurred at Examination and on Anniversary occasions, are paid by the class or classes which incur the expenses.

When music is furnished by the Institute Orchestra for public exercises, no charge is made.

The fee for Graduation and Diploma is \$5.00.

Free scholarships, covering tuition, are awarded to children of Ministers of the Gospel *in actual service*.

For information respecting the Institute, address the Principal, Miss Eveline Judith Stanton, Ph. M., or the President of the University, John H. Harris, Ph. D., LL.D.



# THE BUCKNELL SCHOOL OF MUSIC.

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ELYSÉE AVIRAGNET, A. M., MUS. DOC., DIRECTOR,  
VOCAL AND INSTRUMENTAL MUSIC.

JULIET AIKIN,  
INSTRUMENTAL MUSIC.

KATHARINE ARMISTEAD CRAWFORD, MUS. B.,  
VOCAL AND INSTRUMENTAL MUSIC.

GRACE PRETZMAN,  
ASSISTANT IN MUSIC.

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## GRADUATES IN MUSIC, 1897.

NAME.	COURSE.	RESIDENCE.
FANNIE BLOOM,	<i>Piano and Harmony.</i>	Sunbury
LENA BURKE,	<i>Piano, Harmony, and Organ.</i>	Northumberland
CAROLINE ELIZABETH KELLY,	<i>Piano, Harmony, and Organ.</i>	Lewisburg
JAMES BROWN MARTIN,	<i>String Instruments and Harmony.</i>	Lewisburg
SARA MERRIMAN,	<i>Organ and Harmony.</i>	Lewisburg
AIDA ELECTA PENNYPACKER,	<i>Piano, Organ, and Harmony.</i>	Norristown
ELEANOR POTTER,	<i>Vocal and Harmony.</i>	Lewisburg
ANNA MARY RODGERS,	<i>Piano and Harmony.</i>	Allentown
JESSIE THEKLA STEINER,	<i>Piano and Harmony.</i>	Lewisburg
BIRDIE LEONA TAGGART,	<i>Piano and Harmony.</i>	Emporium

NAMES OF STUDENTS.

PIANO.

NAME.	RESIDENCE.
BELLE BARTOL, . . . . .	Lewisburg
VIOLA DEAN BELFORD, . . . . .	Renovo
BRYANT EVANS BOWER, . . . . .	Lewisburg
ANNIE BROOKS, . . . . .	Pleasant Gap
ISABEL BURNSIDE, . . . . .	Buffalo, N. Y.
KATIE LUZINA CAMPBELL, . . . . .	Peale
FANNIE BELLE CARLISLE, . . . . .	Curwensville
LAURA CHILLSON, . . . . .	Shamokin
SUSIE KRESS CRANDALL, . . . . .	Elkland
CARRIE ELIZABETH DEVITT, . . . . .	Sharpsville
ARTHUR NICHOLAS DEVORE, . . . . .	Lewisburg
MINNIE DONACHY, . . . . .	Lewisburg
KATHARINE DULSO, . . . . .	Elkland
ARIE MABEL DUNKELBERGER, . . . . .	Lewisburg
MAUD MAY ELY, . . . . .	Ridgway
MABEL ROASELTHA FARLEY, . . . . .	Milton
SARAH CLARK FOUST, . . . . .	Milton
LIZZIE GETZ, . . . . .	Lewisburg
AMY ESTELLE GILBERT, . . . . .	Elysburg
GERTRUDE GRANT, . . . . .	Ridgway
LUCY HAYES GRIER, . . . . .	Columbia
HARRIET MILLER GUTHRIE, . . . . .	Lewisburg
ANNA HALFPENNY, . . . . .	Lewisburg
MARY FLORENCE HIGGINS, . . . . .	Lewisburg
MAY ZOE KELLY, . . . . .	Ottowa, O.
WILLIAM IRVINE KING, . . . . .	Uniontown
EMMA JOSEPHINE LAWSHE, . . . . .	Lewisburg
MARIE LOUISE LEISER, . . . . .	Lewisburg
SARAH MERRIMAN, . . . . .	Lewisburg
MARGARET MONTGOMERY, . . . . .	McEwensville
MRS. WILLARD OLDT, . . . . .	Lewisburg
NELLIE PIPER, . . . . .	Schuylkill Haven
JEANETTE PROSS, . . . . .	Lewisburg
CARLINO SEILER, . . . . .	Lewisburg
LOUISA ANN LINN SEILER, . . . . .	Lewisburg
CATHARINE STEPHENSON, . . . . .	Mahaffey
HARRIET ELSPETH VAUGHAN, . . . . .	Newark, N. J.
EDNA WEAGLEY, . . . . .	Montandon
AUGUSTA GENEVIEVE WHITE, . . . . .	Bradford
GRACE SOPHRONIA WOODARD, . . . . .	Bradford
MARY FRANCES WOODS, . . . . .	Lewisburg

## PIPE ORGAN.

NAME.	RESIDENCE.
BRYANT EVANS BOWER, . . . . .	Lewisburg
ARTHUR NICHOLAS DE VORE, . . . . .	Lewisburg
WILLIAM IRVINE KING, . . . . .	Uniontown
JEANETTE PROSS, . . . . .	Lewisburg
CARLINO SEILER, . . . . .	Lewisburg
JESSIE THEKLA STEINER, . . . . .	Lewisburg

## HARMONY.

BELLE BARTOL, . . . . .	Lewisburg
VIOLA DEAN BELFORD, . . . . .	Renovo
MAUD BOWEN, . . . . .	Lewisburg
BRYANT EVANS BOWER, . . . . .	Lewisburg
ANNIE BROOKS, . . . . .	Pleasant Gap
FANNIE BELLE CARLISLE, . . . . .	Curwensville
LAURA CHILLSON, . . . . .	Shamokin
SUSIE KRESS CRANDALL, . . . . .	Elkland
MINNIE DONACHY, . . . . .	Lewisburg
KATHARINE DULSO, . . . . .	Elkland
ARIE MABEL DUNKELBERGER, . . . . .	Lewisburg
MABEL ROASELTHA FARLEY, . . . . .	Milton
SARAH CLARK FOUST, . . . . .	Milton
AMY ESTELLE GILBERT, . . . . .	Elysburg
HARRIET MILLER GUTHRIE, . . . . .	Lewisburg
ANNA HALFPENNY, . . . . .	Lewisburg
WILLIAM IRVINE KING, . . . . .	Uniontown
NELLIE PIPER, . . . . .	Sunbury
JEANETTE PROSS, . . . . .	Lewisburg
CARLINO SEILER, . . . . .	Lewisburg
CATHARINE STEPHENSON, . . . . .	Mahaffey
EDNA WEAGLEY, . . . . .	Montandon
MARY FRANCES WOODS, . . . . .	Lewisburg

## HISTORY OF MUSIC.

BELLE BARTOL, . . . . .	Lewisburg
VIOLA DEAN BELFORD, . . . . .	Renovo
FANNIE BELLE CARLISLE, . . . . .	Curwensville
LAURA CHILLSON, . . . . .	Shamokin
SUSIE KRESS CRANDALL, . . . . .	Elkland
MINNIE DONACHY, . . . . .	Lewisburg
KATHARINE DULSO, . . . . .	Elkland
AMY ESTELLE GILBERT, . . . . .	Elysburg



VOICE.

NAME.	RESIDENCE.
ANNIE BROOKS, . . . . .	Pleasant Gap
ISABEL BURNSIDE, . . . . .	Buffalo, N. Y.
FANNIE BELLE CARLISLE, . . . . .	Curwensville
LAURA CHILLSON, . . . . .	Shamokin
KATE CHRIST, . . . . .	Shamokin
INEZ EUDORA DAVIS, . . . . .	Lewisburg
ELWOOD HERBERT DUTTON, . . . . .	Lewisburg
SARAH CLARK FOUST, . . . . .	Milton
EDWARD FLINT, . . . . .	Philadelphia
JOHN ARTHUR HAGUE, . . . . .	Plymouth
WILLIAM IRVINE KING, . . . . .	Uniontown
EDITH VANREED LEINBACH, . . . . .	Reading
SARAH MERRIMAN, . . . . .	Lewisburg
MARGARET MONTGOMERY, . . . . .	McEwensville
HERBERT MCKINNEY OLMSTED, . . . . .	Emporium
WILLIAM JOHN PEACOCK, . . . . .	Pittsburg
CATHARINE STEPHENSON, . . . . .	Mahaffey
HARRIET ELSPETH VAUGHAN, . . . . .	Newark, N. J.
ALICIA ZIERDEN, . . . . .	Johnsonburg

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VIOLIN.

WILLIAM ANDREW BARTOL, . . . . .	Lewisburg
NELLIE DUNKEL, . . . . .	Lewisburg
MARY DUNLEAVY, . . . . .	Mt. Carmel
SARAH CLARK FOUST, . . . . .	Milton
DAVID FREDERICK, . . . . .	Montandon
RAPHAEL GRESH, . . . . .	Milton
MAIZE HOFFA, . . . . .	Lewisburg
HAROLD PHELPS HUMPHREY, . . . . .	Elkland
LOUISE WEIMER LAWSHE, . . . . .	Lewisburg
EDITH VANREED LEINBACH, . . . . .	Reading
CURTIS MARSH, . . . . .	Milton
MARY FRANCES WOODS, . . . . .	Lewisburg
FRANK YOUNG, . . . . .	Lewisburg

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VIOLONCELLO.

BRYANT EVANS BOWER, . . . . .	Lewisburg
RAE WENDEL, . . . . .	Lewisburg
GRACE SOPHRONIA WOODARD, . . . . .	Bradford

DOUBLE BASS.

NAME.	RESIDENCE.
ARTHUR NICHOLAS DE VORE, . . . . .	Lewisburg
CARLINO SEILER, . . . . .	Lewisburg

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MANDOLIN.

ANNIE BROOKS, . . . . .	Pleasant Gap
ISABEL BURNSIDE, . . . . .	Buffalo, N. Y.
LAURA CHILLSON, . . . . .	Shamokin
SUSIE KRESS CRANDALL, . . . . .	Elkland
INEZ EUDORA DAVIS, . . . . .	Lewisburg
KATHARINE DULSO, . . . . .	Elkland
AMY ESTELLE GILBERT, . . . . .	Elysburg
HARRIET MILLER GUTHRIE, . . . . .	Lewisburg
WILLIAM ANDREW HAVILAND, . . . . .	Lock Haven
MARY FLORENCE HIGGINS, . . . . .	Lewisburg
FILBERT NICKEL, . . . . .	Lewisburg
CLARA JANE SLIFER, . . . . .	Lewisburg
MYRA AMY SPRAGUE, . . . . .	Factoryville
BERTHA CELESTINE WATKINS, . . . . .	Scranton
BESSIE HELEN WELLS, . . . . .	Moorestown, N. J.
FLORENCE GRACE WILLIAMS, . . . . .	Scranton
MARY FRANCES WOODS, . . . . .	Lewisburg

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BANJO.

VIOLA DEAN BELFORD, . . . . .	Renovo
CARRIE ELIZABETH DEVITT, . . . . .	Sharpsville
EDITH VANREED LEINBACH, . . . . .	Reading

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GUITAR.

EMMA MILLER BOLENIUS, . . . . .	Lancaster
KATIE LUZINA CAMPBELL, . . . . .	Peale
GRACE SLIFER, . . . . .	Lewisburg
RUTH SPRAGUE, . . . . .	Lewisburg
GERTRUDE STEPHENS, . . . . .	Lewisburg
AUGUSTA GENEVIEVE WHITE, . . . . .	Bradford
ALICIA ZIERDEN, . . . . .	Johnsonburg

FLUTE, CLARINET, BAND INSTRUMENTS.

NAME.	RESIDENCE.
LYNDON ERNEST AYRES, . . . . .	Clifford
BRYANT EVANS BOWER, . . . . .	Lewisburg
THOMAS REESE BOWER, . . . . .	Lewisburg
EVARTS CLANCY CONOVER, . . . . .	Hamilton Square, N. J.
CHARLES CROMLEY, . . . . .	Lewisburg
HAROLD DONACHY, . . . . .	Lewisburg
LEE McCLOSKEY GOODMAN, . . . . .	Loganton
LEE ROY HALL, . . . . .	Union City
ALBERT HUTCHINSON, . . . . .	Holmes
CHARLES SCULL KEEN, . . . . .	Cramer Hill, N. J.
WILLIAM IRVINE KING, . . . . .	Uniontown
HOWARD PAUL, . . . . .	Lewisburg
WILLIAM JOHN PEACOCK, . . . . .	Pittsburg
HARRY ROTHERMEL, . . . . .	Lewisburg
FRANK MONROE SCHAEFFER, . . . . .	Shelly
GEORGE EDWARD SCHILLING, . . . . .	Cumberland, Md
WARLEY SCHOCH, . . . . .	Lewisburg
CARLINO SEILER, . . . . .	Lewisburg
GEORGE STEPHEN TILLEY, . . . . .	Bridgeton, N. J.
RICHARD WILSON WAGNER, . . . . .	Lewisburg
RICHARD ERVIN WAGNER, . . . . .	Lewisburg
CLARENCE ANDREW WEYMOUTH, . . . . .	Lock Haven

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Total Lessons, . . . . .	164
Names Repeated, . . . . .	75
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Total in School of Music, . . . . .	89
In other Departments, . . . . .	330
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Total in all Departments, . . . . .	419



## COURSES OF STUDY.

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The School of Music is under the special charge of a French artist, whose musical education was received at the Conservatory of Music in Paris, and who has had a large and successful experience in teaching. He is supported by competent assistants, and the course is designed to afford every needed facility for the study of Vocal and Instrumental Music. An ample supply of pianos from the best makers is provided for practice, including a Concert Grand.

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### INSTRUMENTAL MUSIC.

#### COURSE FOR THE PIANO-FORTE OF FOUR YEARS FOR GRADUATION.

The pupil is required to pursue the most thoroughly approved modern system of technical training. After the first rudiments have been mastered, the course of instruction leads to the practice of *études*, designed to unite with purely technical drill the requirement of artistic style and expression.

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#### PIANO.

##### FIRST YEAR.

New England Conservatory Method, 1 and 2 parts; Le Couppey *Ecole du Mécanisme*; Duvernoy *Ecole du Mécanisme*, books 1, 2, and 3; Kohler, op. 157; Czerny, fifty Studies from op. 261, 821, 599, and 139, ed. of Henrich Germer; Meyer, *Progressive and Melodious Studies*; Robert Sutton's "The Elements of the Theory of Music;" Brown, *Musical Biographies of Composers*.

##### SECOND YEAR.

Plaidy, *Technical Studies*; Czerny, *Polyrhythmic Studies* from op. 139, 834, 335, and 299; Czerny, *Studies of Ornamentation* from op. 355 and 833; Czerny, twelve Studies from op. 299 and 740; Czerny, thirty Studies from op. 299 and 834 (Henrich Germer Edition); Heller, *Expression and Rhythm*, op. 125; Kul-lak, *Preparatory Octave Studies*; Homer Norris's *Practical Harmony*; *History of Music*.

##### THIRD YEAR.

Clementi, "Gradus ad Parnassum;" Tausig, *Daily Studies*; Kohler, op. 112; Cramer Studies, books 1, 2, and 3; Czerny, thirty-six Octave Studies from op. 821, 335, 740, and 834 (Henrich Germer Edition); Norris, *Harmony*; Dr. Marx, *Universal School of Music*.

## FOURTH YEAR.

Bach, two and three-voiced invention ; Czerny, twenty Studies from op. 335 ; Czerny, nineteen Studies from op. 740 ; Czerny, Toccata, op. 92 (Henrich Germer Edition) ; Kullak, Octave Studies ; Chopin, Studies ; Liszt, Studies ; Bach, Well-Tempered Clavichord (preludes and figures) ; Kullak, Art of Touch ; Symphonies of Haydn, Mozart, and Beethoven.

During the year, selected studies from Bertini, Rossellen, Moscheles, Heez, and Thalberg are also given to the pupils.

That the æsthetic development may be proportionately secured, the above exercises are supplemented by the study of the works of the best composers.

## COURSE FOR PIPE ORGAN.

The course is based upon :

Dudley Buck Pedal Studies, and upon works of Rink, Batiste, Lefébure—Wely, Guilmant, and others.

## COURSE FOR THE VIOLIN.

This course is based upon :

Dancla's School of Mechanism ; De Beriot's Violinist's First Guide ; Fiorillo's Studies ; Alard's Studies ; Kreutzer's Studies, etc., with selections from the compositions of the best writers for this instrument.

## COURSE FOR THE VIOLONCELLO.

Instruction for this instrument is based upon :

Méthod Pratique pour le Violoncello, par S. Lee ; Studies by Piatti and Romberg.

## COURSE FOR VIOLA.

Bruni's Method and Studies, by Campagnoli.

## COURSE FOR CONTREBASSO (DOUBLE BASS).

Bottesini's Method.

## VOICE CULTURE.

## COURSE OF THREE YEARS FOR GRADUATION.

Careful instruction is given in the use of the voice, and the correct manner of producing purity of tone. To secure control over the voice and gain for it flexibility, fullness, and durability, thorough drill is afforded in such technical exercises as :

Lamperti's and Vannuccini's Italian Methods, Vocalises of Sieber, Concone, Tütgen, Vaccai, Bonaldi, Bordogni, Marchesi, and Panofka ; Lamperti's Studies in Bravura Singing. For expression and the development of a pure style, practice is afforded in singing the best English, German, Italian, and French Songs, Operatic Arias, and Solos from the Oratorios.

## COURSE IN HARMONY.

It is urgently recommended that the study of Harmony be included in the other musical work, inasmuch as a sound knowledge of its principles is essential to the success of all vocalists and instrumentalists. The text-books used are: Bussler's Harmonic Exercises, Homer Norris's Practical Harmony, Richter's Counterpoint, and Reicha's Course of Musical Composition.

## THE ORCHESTRA.

## CLASSES FOR ALL ORCHESTRAL INSTRUMENTS.

Students who are sufficiently advanced in any of the above musical instruments will have opportunity of practice in string quartettes, trios, concertos, and symphonies of Beethoven, Mozart, and Haydn.

## THE BAND.

A Brass Band, consisting of about twenty pieces, has been organized, and is led by M. Elysée Aviragnet, Director of the School Music. The Band meets weekly in Bucknell Hall for rehearsal, and furnishes street and concert music for University and town exercises.

## RECITALS.

On the Friday evening prior to Commencement Week a public recital of the School of Music is held in Bucknell Hall.

The public examination of those who desire certificates of proficiency is held in Bucknell Hall the Saturday afternoon before Commencement. At this time each pupil plays or sings two pieces of high grade, and reads an essay on some subject connected with music.

## TUITION.

Extra tuition is charged for instruction in Music, as follows:

	<i>Per Annum.</i>
Vocal Music, . . . . .	\$60 00
Music on Piano, or Organ, . . . . .	60 00
Harmony, in Class, . . . . .	18 00
Harmony, private lessons, . . . . .	60 00
Use of instrument for practice, . . . . .	10 00

	<i>Per Lesson.</i>
Special individual instruction in Music, . . . . .	\$1 00

No reduction will be made except in case of protracted illness.

Instruction in the Orchestra and in Harmony is free to pupils otherwise studying music.



## RESIDENCE OF MUSIC PUPILS.

Pupils in music reside in the Institute, and are under the care of the Principal of the Institute. Students pursuing any of the Institute courses can also take studies in music. Those who wish to make music a specialty are recommended to take at least one study each term in Language or Literature, for which no additional charge will be made. When two or more studies are taken in the Literary Department, the regular rates will apply.

The regular charges for pupils in music, residing in the Institute, including one literary subject per term, are \$195 per annum. This *does not* include charges for instruction in music, which are determined by the number of lessons taken per week.

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## GRADUATION IN MUSIC.

Students who complete any of the Courses in Music and pass the examinations, receive a certificate of proficiency. Students will not be ranked as Seniors in music until they have passed an examination before the Committee. Besides the examination before the Committee for admission to the Senior Class, students will be required to pass a preliminary examination at the opening of the Spring term, and a final examination before Commencement Week. Students will not be admitted to the final examination unless they have passed the preliminary examinations.

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## THE AVIRAGNET PRIZES.

Professor Elysée Aviragnet has established two prizes, as follows:

1. A Prize of ten dollars for excellence in Music.

For 1897 this prize was awarded to Eleanor Potter.

2. A Prize of ten dollars for excellence in French.

For 1897 this prize was awarded to Eleanor Potter and Elbina Lavinia Bender.

A prize was also awarded for musical composition, in 1897, to James Brown Martin.

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## GENERAL REMARKS.

Young ladies attending upon the School of Music are subject to the administration and other regulations enacted by the Board of Trustees for the government of students in the Institute. These rules are given on page 122 of this Catalogue. Students of Music are also entitled to all the privileges of the Institute.

For information respecting the School of Music address the Director, Elysee Aviragnet, Mus. Doc., or the President of the University, John H. Harris, Ph. D., LL. D.

# UNIVERSITY CALENDAR.

1898-99.

Second Term ends, . . . . . Friday, March 25, 1898

## SPRING RECESS.

Third Term begins, . . . . . Thursday, March 31, 1898  
Sermon before the Y. M. C. Associations, . . . . . Sunday, April 10, 1898  
Declamation of the Third Form, Academy, . . . . Saturday, April 23, 1898  
Exercise of the Fourth-Year Class, Institute, . . . Saturday, April 30, 1898  
Contest in Elocution, Institute, . . . . . Saturday, May 7, 1898  
Exhibition of the Junior Class, College, . . . . . Friday, May 20, 1898  
Examinations, . . . . . Thursday to Saturday, June 16 to 18, 1898  
Exhibition, School of Music, . . . . . Friday, June 17, 1898  
Junior Debate, . . . . . Saturday, June 18, 1898  
Baccalaureate Sermon, . . . . . Sunday, June 19, 1898  
Sermon before the Education Society, . . . . . Sunday, June 19, 1898  
Examinations for Admission to College, . . . . . Monday, June 20, 1898  
Meeting of the Alumnae of the Institute, . . . . . Monday, June 20, 1898  
Oration before the Literary Societies, . . . . . Monday, June 20, 1898  
Annual Meeting of the Trustees, . . . . . Tuesday, June 21, 1898  
Annual Meeting of the Alumni, . . . . . Tuesday, June 21, 1898  
Exhibition of the Fourth Form, Academy, . . . . . Tuesday, June 21, 1898  
Graduating Exercises of the Institute, . . . . . Tuesday, June 21, 1898  
Oration before the Alumni, . . . . . Tuesday, June 21, 1898  
Annual Commencement, the 48th, . . . . . Wednesday, June 22, 1898

## SUMMER VACATION.

Examinations for Admission to College, . . . . . Wednesday, September 21, 1898  
First Term begins, . . . . . Thursday, September 22, 1898  
Reception by Christian Associations, . . . . . Saturday, September 24, 1898  
Introductory Address, . . . . . Monday, September 26, 1898  
Thanksgiving (recess of three days), . . . . . Thursday, November 24, 1898  
First Term ends, . . . . . Thursday, December 22, 1898

## HOLIDAY RECESS.

Second Term begins, . . . . . Tuesday, January 3, 1899  
Day of Prayer for Colleges, . . . . . Thursday, January 26, 1899  
Second Term ends, . . . . . Friday, March 24, 1899

## SPRING RECESS.

Third Term begins, . . . . . Thursday, March 30, 1899  
Sermon before the Christian Associations, . . . . . Sunday, April 9, 1899  
Third Term ends, . . . . . Wednesday, June 21, 1899



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UNIVERSITY OF ILLINOIS-URBANA



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